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# Navigating The Entrepreneurial Landscape: Challenges Faced by Startups in Kerala, India

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#### **Abstract**

This research paper investigates the challenges confronting startups within Kerala, India's burgeoning entrepreneurial landscape. Despite a surge in startup initiatives, numerous obstacles impede their growth and sustainability. Through a comprehensive literature review and empirical analysis, this study aims to identify and analyze these challenges, offering insights for entrepreneurs, policymakers, and investors. Key objectives include examining challenges faced by IT startups from inception to scale-up, assessing funding rates in Kerala compared to other states, and proposing solutions to bridge gaps in the startup ecosystem. The study employs descriptive statistics to summarize survey data, highlighting financial, marketing, and product validation challenges. It suggests measures such as establishing effective feedback mechanisms, prioritizing swift product launches, enhancing PR support, and conducting thorough market research. By implementing these recommendations, startups can navigate challenges effectively, fostering a conducive environment for entrepreneurial success in Kerala.

**Keywords:** Entrepreneurship, Startup Challenges, Startups

#### 1. Introduction

A startup could be defined as a new business venture in the first stages of operations with one or more founders. It is focusing on the products or services based on technology and innovation (Babu & Sridevi, 2019). Most of the Startups are initially funded by founders or family & friends. A startup incubator is a collaborative program designed to help new startups succeed. Incubators help entrepreneurs solve some of the problems commonly associated with running a startup by providing workspace, seed funding, mentoring, and training. In many economies around the world, start-ups have played and continue to play important roles in the expansion, modernization, and industrialization of those economies(Suresh Babu&Sridevi,2019). Startup incubators have an important role in supporting the Startups and their initiatives, designed to create a robust ecosystem for fostering innovation. Startups will promote long-term economic expansion, create numerous chances for employment, and reduce unemployment. In terms of e-governance projects, e-literacy programmes, and the development of cutting-edge digital infrastructure



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facilities, Kerala is at the forefront of the field(The State Of Kerala Startup Ecosystem Report,INC42,2023). There are over 2900+ startups operating in a variety of industries. These businesses operate in a number of industries including fintech, healthcare, agriculture, and edtech etc (https://startupmission.kerala.gov.in/).

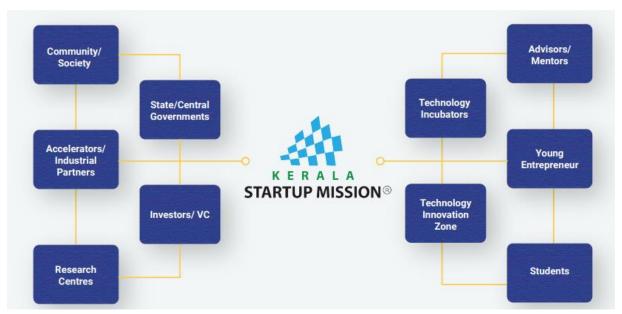
Prior research shows that there are a number of common challenges faced by startups(Babu& Sridevi, 2019). Although many of the problems are unique and vary in their impact on startups, there are several that are consistent. A start-up is always seen to have its maximum potential for growth, but it also runs the risk of failing completely if it doesn't have adequate preparation. Therefore, this paper discusses the various issues and challenges faced by startups in Kerala. To do so, five major areas are discussed: (Babu, 2019) various challenges faced by IT startups in Kerala from setting up to scaleup ( Kurode, Vasani & Moitra, 2016) identify the gap between startups and implementation of various government initiatives that helps in the development of Startups in Kerala (Salamzadeh & Kawamorita, 2015) analyze the growth and opportunities of startups in Kerala (The State Of Kerala Startup Ecosystem Report, INC42,2023)To identify the reason for low funding rate in Kerala when compared to the Startup hubs in Bengaluru, Mumbai, Delhi, Chennai and Pune. (https://startupmission.kerala.gov.in/)To find a solution that can bridge all the gaps between the Startups and drivers of the Startup ecosystem to become successful.

The Government of Kerala provides start-ups with the best policies and opportunities to grow in the market(The State of Kerala Startup Ecosystem Report, INC4,2023). Finding effective solutions for both the Department and the citizens in a State like Kerala depends on creativity, which is the key to solving complex problems. In Kerala, the majority of government departments have embraced technology. The search for cutting-edge digital solutions that may be used to address the different demands of the government and the constituents it serves must be ongoing. The governance of public-sector entities must include such a mechanism in order to maintain the government on the cutting edge(The State of Kerala Startup Ecosystem Report, INC42,2023). Kerala Startup Mission has been bridging the gap between the startups and the Government through their various initiatives for global visibility programs. Accelerator programs, scaleup programs, funding schemes (The State of Kerala Startup Ecosystem Report, INC42,2023)

Figure 1: Kerala Startup Mission Ecosystem



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#### 1.1 List of Incubators in Kerala approved by Government of Kerala

- 1. Technopark Technology Business Incubator (Kerala Startup Mission)
- 2. Maker Village
- 3. SCTIMST-TIMed
- 4. Amrita Technology Business Incubator
- 5. Startups Valley TBI
- 6. TBI NIT Calicut
- 7. College of Engineering Trivandrum TBI
- 8. IIMK LIVE Kozhikode
- 9. Startup Village SV.co Indian Telecom Innovation Hub Technology Business Incubator Among the above mentioned list

(https://www.indiascienceandtechnology.gov.in/listingpage/consolidated-list-tbis) Kerala Startup Mission and Maker Village are the 2 top incubators in Kerala.

### 1.2 Why Kerala Startup Mission and Maker Village as top incubators

Kerala Startup Mission is a government approved incubator which supports entrepreneurs across Kerala. The various initiatives undertaken by the Kerala Startup Mission have contributed to the development of an ideal startup ecosystem, which has led to Kerala being recognised by Startup India, DPIIT as the state with the best performance in the state startup rankings in 2018 and 2019(The State Of Kerala Startup Ecosystem Report, INC42,2023). With more than 4,000 startups currently registered, INR 20 Cr Grants disbursed, INR 1,000 Cr Fund of Fund, more than 63 Incubators, and 10 L Sq Ft of Office Space allotted, the Kerala Startup Mission has been able to establish itself as an essential component of not only Kerala's but also India's Technology Startup sector(The State Of Kerala Startup Ecosystem Report, INC42,2023). Below mentioned are the startups programs provided by Kerala Startup Mission(The State of Kerala Startup Ecosystem Report, INC42,2023):

Schemes For Women Entrepreneurs: Soft Loan Scheme, Seed Fund, Technology Commercialisation Support, Soft Loan Against Purchase Order.

Investment/ Grant Schemes For Startups: KSUM Fund Of Funds, Government As A Marketplace (Procurement from KSUM startups), R&D Grant, Patent Reimbursement, Innovation Grant, Seed Fund



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Support Scheme, Rent Subsidy, Cross Sell By KSUM: Corporate Innovation By Startups, Marketing Support Scheme.

Schemes For Student Entrepreneurs: Innovation And Entrepreneurship Development Centres (IEDCs), INSPIRE, Startup Awareness & Leadership Training (SALT), Local Entrepreneurship Advancement Programme (LEAP), WhyHacK, IDEA Fest, Faculty Development Programme

Maker Village, a ground-breaking startup incubator under the Ministry of Electronics and Information Technology, Government of India, which is the largest electronic hardware incubator and ESDM facility in the nation. It is being implemented by the Indian Institute of Information Technology, Trivandrum, with support from Kerala Startup Mission. Below are the Schemes offered by Maker village for supporting startups(<a href="https://makervillage.in/">https://makervillage.in/</a>):

- TIDE EIR
- SAMRIDH Accelerator
- NIDHI Accelerator
- NIDHI Prayas Program
- TIDE 2.0 Grant
- Incubation Programs

#### 2. Objectives

- To examine the various challenges faced by IT startups in Kerala from setting up to scaleup.
- To identify the low funding rate in Kerala, if any when compared to other States in India.
- To find a solution that can bridge the gap between startup and drivers of the startup ecosystem to become successful.

#### 3. Literature Review

This section reviews existing literature on startup challenges globally and explores specific studies related to challenges faced by startups in emerging economies. It establishes a theoretical framework that informs the analysis of Kerala's startup challenges. The purpose of this literature review is to provide a comprehensive overview of the challenges encountered by startups in the state of Kerala, India. By synthesizing the findings from various studies, this review aims to identify common themes, key findings, research methodologies, and gaps in the existing literature related to the challenges faced by startups in Kerala.

The study (Tom & Mathew, 2019) explores the prospects and challenges faced by startups in Kerala. Challenges identified include inadequate infrastructure, limited access to funding, and regulatory hurdles. The study employs a qualitative research approach, utilizing interviews and surveys to gather data. This study (Gurusamy & Pasha, 2020) focuses on the challenges specific to startups in Wayanad district, Kerala. Challenges include lack of skilled labor, insufficient infrastructure, and marketing difficulties. The study employs both qualitative and quantitative methods, including surveys and interviews. This broader study (Babu & Sridevi, 2019) covers challenges faced by startups in India, with potential implications for Kerala. Challenges include regulatory complexities, funding constraints, and market competition. The study utilizes a qualitative research approach, including interviews and content analysis. This study (Rajan & Menon, 2018) investigates the challenges and barriers to growth specifically in Kerala's startup ecosystem. Challenges include talent drain, funding constraints, and regulatory hurdles. The study employs



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a qualitative approach, conducting interviews and surveys. This study (Thomas & Nair,2020) emphasizes the impact of digital infrastructure gaps on startups in Kerala. Challenges include limited access to technology and digital resources. The study combines qualitative and quantitative methods, including surveys and case studies. This study (Kumar & Pillai,2017) explores the challenges related to the retention of talent in Kerala startups. Challenges include limited opportunities for skill development and career growth. The study utilizes a qualitative approach, including interviews and case studies. This study (George & Thomas,2019) focuses on challenges related to market expansion faced by Kerala startups. Challenges include market saturation and competition. The study employs a qualitative approach, utilizing interviews and case studies. This study (Menon & Kumar, 2018). examines regulatory hurdles and compliance costs in Kerala's startup ecosystem. Challenges include complex regulations and compliance costs. The study utilizes a qualitative approach, conducting interviews and document analysis. Gaps in the Literature. Despite the valuable insights provided by these studies, there are some notable gaps in the existing literature on challenges faced by startups in Kerala. These gaps include:

- Limited exploration of the role of government policies and support mechanisms.
- Insufficient consideration of the impact of cultural and regional factors on startup challenges.
- A lack of longitudinal studies tracking the evolution of startup challenges over time.
- Few studies focusing on the specific challenges of different industry sectors within Kerala's startup ecosystem.

Future research could aim to address these gaps to provide a more comprehensive understanding of the challenges faced by startups in Kerala.

#### 3.1 Mechanisms for Startups in Kerala: A Literature Review

Purpose of the Literature Review. The purpose of this literature review is to examine and synthesize the existing research on support mechanisms available for startups in the state of Kerala, India. By reviewing the selected studies, this review aims to provide insights into the various forms of support, key findings, methodologies employed, and gaps in the literature related to startup support in Kerala.

The study (Holaday, Holaday, & Kumar, 2019) focuses on the role of Kerala Startup Mission (KSUM) in fostering Kerala's startup ecosystem through business incubation. It highlights KSUM's efforts in providing infrastructure, mentorship, and funding support to startups. The study appears to employ a qualitative approach, combining a review of KSUM's activities and their impact on startups. This study (Thomas & Georgee, 2020) explores the relationship between incubation centers and startups in Kerala. It emphasizes the positive impact of incubators in nurturing startups by providing essential resources and mentorship. The study likely employs a mixed-methods approach, including surveys, interviews, and data analysis. This study (Joseph & Nair, 2016) examines the role of business incubators in supporting startups in Kerala. It underscores the significance of incubators in providing a conducive environment for startups to grow and innovate. The study employs a qualitative research approach, including interviews and content analysis. This study (Menon, & Kumar, 2017) highlights the importance of networking and collaboration as catalysts for startup success in Kerala. It emphasizes how collaborative efforts can lead to innovation and growth. The study likely employs a qualitative approach, involving interviews and case studies. This study (Nair & Thomas, 2019) explores the availability of mentorship and guidance for startups in Kerala. It underscores the critical role of mentors in providing valuable insights and guidance to startups. The study likely uses qualitative research methods, including interviews and surveys. This study Rajan, & Menon, 2018) investigates the role of accelerators in supporting early-stage startups in Kerala. It



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emphasizes how accelerators facilitate rapid growth through mentorship and funding. The study likely employs a qualitative research approach, including interviews and case studies. This study Kumar & George, 2019) examines government support schemes available to startups in Kerala. It emphasizes the importance of government initiatives in providing financial and regulatory support. The study likely employs a combination of qualitative and quantitative research methods, including surveys and policy analysis.

Gaps in the Literature. Despite the valuable insights provided by these studies on startup support mechanisms in Kerala, there are some gaps in the existing literature:

- Limited research on the long-term impact and sustainability of startup support programs in Kerala.
- A need for more comprehensive studies that assess the effectiveness of specific support mechanisms, such as incubators and accelerators.
- Insufficient exploration of the challenges and barriers faced by startups in accessing and utilizing support services.
- Few studies examine the role of cultural and regional factors in shaping the effectiveness of support mechanisms in Kerala's diverse startup ecosystem.

Future research could focus on addressing these gaps to better inform the development and enhancement of startup support programs in Kerala.

### 3.2 Financing Patterns and Funding Challenges for Startups in Kerala: A Literature Review

Purpose of the Literature Review. The purpose of this literature review is to examine and synthesize the existing research on financing patterns and funding challenges faced by startups in the state of Kerala, India. By reviewing the selected studies, this review aims to provide insights into the sources of startup financing, key findings, methodologies employed, and gaps in the literature related to funding for startups in Kerala.

Key Findings from the Selected Studies. This study (Mustafa & Johnson, 2018) likely explores the overall startup ecosystem in Kerala, including funding challenges. Key findings may include the opportunities and challenges faced by startups in securing financial support. This study (Nair & Thomas, 2018) investigates the patterns and trends in startup financing in Kerala. Key findings include the prevalence of bootstrapping, reliance on personal savings, and limited access to venture capital. The study employs a quantitative approach, utilizing surveys and data analysis.

This study (Rajan & Kumar, 2017) examines the role of venture capital and angel investment in Kerala's startup ecosystem. Key findings may include the challenges startups face in attracting venture capital and angel investors. The study likely combines qualitative and quantitative research methods, including interviews and data analysis. This study (Menon& George, 2019) explores crowdfunding as an alternative funding source for startups in Kerala. Key findings highlight the potential benefits of crowdfunding and its challenges as a financing option. The study likely employs a mixed-methods approach, including surveys, case studies, and data analysis. This study (Kumar & Thomas, 2018) focuses on the challenges associated with debt financing for startups in Kerala. Key findings may include difficulties in accessing loans, high interest rates, and the impact on startup growth. The study likely utilizes qualitative research methods, including interviews and content analysis. This study (George & Nair, 2020) examines the role of government grants and subsidies in funding startups in Kerala. Key findings may include the effectiveness of government support programs and their impact on startup financing. The study likely combines qualitative and quantitative research methods, including policy analysis and interviews.



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Gaps in the Literature. While the selected studies provide valuable insights into startup financing and funding challenges in Kerala, there are some gaps in the existing literature:

- Limited research on the specific funding challenges faced by startups in different industry sectors within Kerala.
- A need for more comprehensive studies that assess the impact of funding challenges on startup success and survival.
- Insufficient exploration of innovative funding models and strategies tailored to the Kerala startup ecosystem.
- Few studies that address the role of cultural and regional factors in shaping funding patterns and challenges for startups in Kerala.

Future research could aim to address these gaps to better inform the development of effective funding solutions and policies for startups in Kerala.

#### 3.3 Strategic Innovation Factors for Startups: A Literature Review

Purpose of the Literature Review: The purpose of this literature review is to examine and synthesize the existing research on strategic innovation factors that contribute to the success and growth of startups in the state of Kerala, India. By reviewing the selected studies, this review aims to provide insights into the various innovation strategies, key findings, methodologies employed, and gaps in the literature related to startup innovation in Kerala.

Key Findings from the Selected Studies. This study (Vijayan, 2020) may offer insights into the broader role of startups in Kerala's entrepreneurial development, potentially including their contribution to innovation and economic growth.

This study (Rajan & Menon, 2019) focuses on innovation strategies employed by Kerala startups using a case study approach. Key findings may include the identification of successful innovation strategies and their impact on startup performance. The study employs a qualitative research approach, conducting case studies and in-depth interviews.

This study (Nair & Kumar, 2018) explores the adoption of open innovation practices by startups in Kerala. Key findings may include the benefits and challenges of open innovation for startups. The study likely combines qualitative and quantitative research methods, including surveys and case studies.

This study (Thomas & George, 2020) examines the role of design thinking in driving innovation in Kerala startups. Key findings may highlight the importance of user-centered design and creativity in startup innovation. The study likely employs a qualitative research approach, including interviews and design thinking workshops.

This study (Kumar & Pillai,2019) investigates the significance of strategic alliances and collaborations in promoting innovation among startups in Kerala. Key findings may include examples of successful partnerships and their impact on innovation. The study likely uses a qualitative approach, conducting interviews and case studies.

This study (George & Nair, 2017)) explores the application of the lean startup methodology in fostering innovation within Kerala's startup ecosystem. Key findings may include the effectiveness of lean startup principles in achieving innovation. The study likely employs a mixed-methods approach, combining surveys, interviews, and data analysis.



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Gaps in Literature. While the selected studies provide valuable insights into strategic innovation factors for startups in Kerala, there are some gaps in the existing literature:

Limited research on the specific challenges and barriers startups face in implementing innovative strategies, a need for more comprehensive studies that assess the long-term impact of innovation on the growth and sustainability of startups in Kerala, insufficient exploration of the role of government policies and support in fostering startup innovation, few studies that address the cultural and regional factors influencing innovation strategies in Kerala's diverse startup ecosystem, future research could aim to address these gaps to better inform startup founders, policymakers, and stakeholders about effective innovation strategies and their implications for Kerala's startup ecosystem.

### 3.4 Government Initiatives and Policies for Startups in Kerala: A Literature Review

Purpose of the Literature Review. The purpose of this literature review is to examine and synthesize the existing research on government initiatives and policies aimed at supporting startups in the state of Kerala, India. By reviewing the selected studies, this review aims to provide insights into the impact of government support, key findings, methodologies employed, and gaps in the literature related to government initiatives for startups in Kerala. Key Findings from the Selected Studies. This study (Nambiar & Balasubramanian, 2020) likely investigates the impact of government support on startup performance in Kerala. Findings may include the positive effects of government programs and policies on startup growth and success.

This study (Rajan & Menon, 2020) examines the impact of government policies on the startup ecosystem in Kerala. Key findings may include the effectiveness of policies in fostering a conducive environment for startups. The study likely employs a mixed-methods approach, combining policy analysis and interviews. This study (Nair & Thomas, 2018) likely assesses the effectiveness of startup incubation programs supported by the Kerala government. Findings may include the outcomes and benefits of these programs for startups. The study likely utilizes a qualitative research approach, including interviews and program evaluation. This study (Kumar & George, 2019) explores the role of tax incentives in promoting startups in Kerala. Key findings may include the impact of tax incentives on startup formation and growth. The study likely combines qualitative and quantitative research methods, including surveys and policy analysis. This study (George & Nair, 2021) investigates government grants and funding opportunities for startups in Kerala. Findings may include the accessibility and effectiveness of these funding mechanisms. The study likely uses a mixed-methods approach, combining policy analysis and surveys. This study (Kumar & Thomas, 2020) likely assesses the impact of entrepreneurship policies on Kerala's startup ecosystem. Findings may include the role of policies in shaping the entrepreneurial landscape. The study likely employs a qualitative research approach, including interviews and policy analysis.

Gaps in Literature. While the selected studies provide valuable insights into government initiatives and policies for startups in Kerala, there are some gaps in the existing literature: Limited research on the long-term sustainability and scalability of government-supported startups in Kerala, a need for more comprehensive studies that analyze the challenges and barriers faced by startups in accessing and utilizing government support, iInsufficient exploration of the role of local and regional factors in shaping the effectiveness of government initiatives in Kerala, few studies that provide a comparative analysis of different types of government support mechanisms and their impact on startups in Kerala, future research could aim to address these gaps to provide a more nuanced understanding of the role of government policies and initiatives in fostering a thriving startup ecosystem in Kerala.



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#### 4. Methodology

In this section, we outline the methodology for the pilot research study focused on challenges faced by IT startups in Kerala, gap analysis of government initiatives and startup implementation, growth and opportunities for IT startups, funding discrepancies compared to other startup hubs, and proposed solutions for bridging the gaps. The research employs a quantitative research design with a descriptive type of sampling.

### 4.1 Research Design

Quantitative Research Design: This study utilizes a quantitative research design to collect and analyze numerical data that can be statistically analyzed to draw meaningful insights and conclusions. (Bhandari, 2020)

### **4.2 Population and Sample**

Population. The population for this study comprises IT startups in the Kerala State region. There are a total of 757 active IT startups in the region (Singh, 2022).

Sample Size. The sample size is determined using a 95% confidence level, a 5% margin of error, and a 15% population proportion. This results in a required sample size of 156 startups. However, for the pilot research study, a sample size of 35 startups will be selected. (Pennsylvania State University, 2023).

### 4.3 Sampling Method

Descriptive Sampling. Descriptive sampling is used for this study. It involves selecting a representative sample from the population without any specific randomization technique. In this case, startups will be selected based on convenience and accessibility (Yellapu, 2018).

#### **4.4 Data Collection**

Data Collection Method. Data will be collected through a combination of surveys and direct interviews using a semi-structured questionnaire (George, 2022).

#### 4.5 Survey

A survey will be distributed among the core teams of the selected startups to gather quantitative data.

#### **4.6 Direct Interview**

Information from key individuals, such as Directors, Co-founders, CEO, CFO, and COO, will be collected through direct interviews. These interviews will provide qualitative insights.

### 5. Data Analysis

### **5.1 Descriptive Statistics**

Descriptive statistics, including measures of central tendency and dispersion, are employed to summarize the quantitative survey data. Mean, median, mode, standard deviation, and frequency distributions are calculated to characterize the main features of startup challenges in Kerala( (Hayes, A, 2023).

#### **5.2 Ethical Considerations**

Ethical considerations will be taken into account throughout the research process, including obtaining informed consent from participants, ensuring data privacy, and maintaining confidentiality.

#### **5.3** Limitations

Limitations of this pilot research study may include a relatively small sample size and potential biases in data collection. Additionally, the study's findings may not be fully generalizable to the entire population of IT startups in Kerala due to the sampling method used.



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### 5.4 Key Challenges

This section identifies and analyzes the primary challenges faced by startups in Kerala, categorizing them into key thematic areas such as funding constraints, regulatory hurdles, talent acquisition, market access, and cultural factors. Real-world case studies and examples will be integrated to provide practical insights.

- A. Financial challenges
- B. Marketing challenges
- C. Product Validation challenges

### **5.5 Impact on Startup Success**

Examining the impact of these challenges on startup success is crucial. This section discusses how overcoming or succumbing to these challenges influences the growth, sustainability, and innovation capacity of startups in Kerala.

Table 1: Age group

Age	Frequency	Percentage
18-34	30	85.71%
35-54	5	14.29%
55 and above	0	0%
Total	35	100%

The research findings indicate that a significant portion of entrepreneurs initiated their startups within the age range of 18 to 34 years, demonstrating a keen enthusiasm for innovation and entrepreneurship during their younger years.(Table No:1)

**Table 2: Education Background** 

Discipline	Frequency	Percentage
Business and Management	5	14.29%
Technology & Engineering	17	48.57%
Business and Management & Technology & Engineering	1	2.86%
Social Sciences	1	2.86%
Law & Legal Studies	0	0%
Health & Medicine	1	2.86%
Other	10	28.57%



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Total   35   100%	Total		100%
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A significant portion of the founders, with a background in technology and engineering, constitutes approximately 48.57% of the total population(Table No:2).

**Table 3: Sector of the Product** 

Sector of the Product	Frequency	Percentage
Education	5	14.29%
Healthcare	8	22.86%
Retail	2	5.71%
Fintech	1	2.86%
Agritech	1	2.86%
HR & Recruitment	1	2.86%
Trading	1	2.86%
Real estate	1	2.86%
Others	15	42.86%
Total	35	100

The predominant focus of startups on products and services within the healthcare sector, indicating promising opportunities in this domain(Table No:3). Additionally, 14.29% of the total population is engaged in the education sector. This suggests that a 8.57% increase in interest may lead to a shift in the choice of sector from healthcare to education. Another noteworthy discovery is that a majority, accounting for 57.16%, express an inclination toward diversifying their sector choices beyond education and healthcare. Interestingly, an equal percentage is observed in the selection of specific areas. Specifically, 2.86% of respondents display a consistent interest across a range of options, including fintech, agritech, trading, HR & recruitment, and real estate.

Table 4: Startup Stages



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Team Size	Stage as per the standards
Pre Startup Stage(0 Year)	0
Early Stage (1-2 Years)	7
Growth Stage (2-5 Years)	13
Expansion Stage (5-10 Years)	13
Maturity Stage (10+Years)	2
Exit or Transition Stage	0
Total	35

The research outcomes(Table No:4) suggest that a substantial portion of respondents' startups are currently positioned in the growth and expansion stages, as determined by their years of operation. Notably, a significant number of growth-stage startups maintain teams comprising fewer than 10 members. Expansion-stage startups tend to maintain team sizes ranging from 10 to 30 individuals, even though 23.07% of respondents indicate teams with fewer than 10 members. Another notable observation is that, within the maturity stage, 5.71% of the total population maintains team sizes below 30. However, a noteworthy shift is observed in the growth and expansion stages, where a considerable proportion of startups boast teams exceeding 50 members. When examining the early-stage startup teams, it is striking to note that approximately 28.57% maintain team sizes of 10 to 30 individuals. This observation presents a valuable insight, as it may help identify challenges related to team composition in early-stage startups.

**Table 5: Cofounders** 

No of Co founders	Frequency	Percentage
1	4	11.4%
2	19	54.3%



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3	7	20%
4	4	11.4%
More than 4	1	2.9%
Total	35	100%

The analysis (Table No: 5)reveals that the majority of startups, specifically 54.3% of the total population, have two co-founders, indicating a consistent trend among the surveyed startups.

**Table 6: Financial Challenges** 

Financial challenges	Frequency	Percentage
Finding the right funding		
option	17	42.5
Creating a scalable		
business model	8	20
Spending the fund wisely	4	10
Time delay of grants	1	2.5
Understanding the		
fundamentals of funding	6	15
Determining how much		
money to ask for	3	7.5
NA	1	2.5

Startups in Kerala encounter a unique set of financial challenges(Table 6) as they embark on their entrepreneurial journeys. While the state offers a vibrant ecosystem for innovation and growth, startups often face specific financial hurdles that require strategic solutions. The paper identifies the major challenges faced by the entrepreneurs in terms of funding.

Finding the Right Funding Option (42.5%): This challenge is the most prevalent among the respondents, with 42.5% of them citing it. It suggests that many startup founders grapple with the initial hurdle of identifying appropriate sources of funding for their businesses. This challenge may encompass issues related to venture capital, angel investment, loans, grants, or bootstrapping.



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Creating a Scalable Business Model (20%): The second most prominent challenge identified is the need to create a scalable business model, mentioned by 20% of respondents. This indicates that a significant portion of founders recognizes the importance of structuring their businesses to accommodate rapid growth and attract potential investors.

Spending the Fund Wisely (10%): Approximately 10% of respondents acknowledge the challenge of using funds judiciously. This suggests an awareness among startup founders of the critical importance of financial management post-funding. Responsible financial planning and expenditures are crucial for the sustainability and success of startups.

Time Delay of Grants (2.5%): While a relatively smaller percentage of respondents (2.5%) cited the time delay of grants as a challenge, it is still worth noting. Delays in grant disbursement can hinder a startup's operations and progress, highlighting the need for streamlining grant application and approval processes. Understanding the Fundamentals of Funding (15%): Fifteen percent of respondents identified the challenge of understanding the basics of funding. This suggests that a substantial portion of startup founders may lack knowledge about key concepts related to fundraising, such as valuation, term sheets, and negotiation strategies.

Determining How Much Money to Ask For (7.5%): Around 7.5% of respondents mentioned the challenge of determining the appropriate amount of funding to request. Accurately assessing

funding needs is essential to avoid over- or underestimating financial requirements, which can impact a startup's viability. NA (2.5%): A small percentage of respondents (2.5%) did not provide specific responses, which could imply a lack of awareness of the challenges or a reluctance to disclose their concerns.

#### Recommendations based on data

To address the challenges identified in entrepreneurial funding, a multifaceted approach is recommended. First, promoting entrepreneurial education and training programs can equip founders with the necessary skills to navigate funding complexities. Mentorship initiatives should be expanded to guide startups in identifying suitable funding sources. Financial management support, through partnerships or resources, can aid in responsible fund allocation. Streamlining grant processes can mitigate delays, while networking opportunities facilitate connections with investors. Access to up-to-date research on funding trends is essential, alongside ensuring sensitive data handling throughout the process.

Table 7: How difficult was it to receive the investment in the initial level?

Difficulty		
level	Frequency	Percentage
Very Difficult	13	38.24
Difficult	14	41.18
Medium	5	14.71
Easy	2	5.88
Very Easy	0	0



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The data (Table 7)presented in the above table reflects the perceived difficulty level of receiving investment at the initial stage, as reported by a group of entrepreneurs. The responses are categorized into five levels of difficulty: "Very Difficult," "Difficult," "Medium," "Easy," and "Very Easy." The key findings from the data are as follows: A significant portion of entrepreneurs, constituting 38.24%, characterized the process of securing initial investment as "Very Difficult." This suggests that a substantial number of early-stage founders faced substantial challenges in attracting initial funding. An even larger proportion, representing 41.18%, reported the process as "Difficult." This indicates that a majority of entrepreneurs encountered considerable obstacles when attempting to secure investment at the outset of their businesses. A smaller, albeit noteworthy, percentage, at 14.71%, described the process as "Medium" in terms of difficulty.

These entrepreneurs perceived a moderate level of challenge in securing initial investment. A relatively small fraction, 5.88%, considered the process "Easy." This implies that a minority of entrepreneurs experienced a relatively straightforward process when seeking initial investment. Interestingly, none of the respondents indicated that securing initial investment was "Very Easy," suggesting a consensus among the surveyed entrepreneurs that this stage inherently involves some level of difficulty.

### Recommendations

To address the challenges encountered by early-stage ventures in securing initial investment, tailored support mechanisms are essential. This involves improving access to information on funding sources and application processes, alongside promoting mentorship and networking opportunities. Encouraging investor outreach and implementing supportive government policies, such as tax credits, can further stimulate early-stage investment. Continuous evaluation of support programs ensures their effectiveness and adaptation to evolving needs.

Table 8: Have you received funding for the Minimum viable product?

Agreeableness	Frequency	Percentage
Strongly		
Disagree	2	5.71
Disagree	9	25.71
Neither Agree		
nor Disagree	13	37.14
Agree	9	25.71
Strongly Agree	2	5.71

The data Table(8) provided in the above table reflects the responses of participants regarding whether they have received funding for their Minimum Viable Product (MVP). The responses are categorized into five levels of agreement: "Strongly Disagree," "Disagree," "Neither Agree nor Disagree," "Agree," and "Strongly Agree." Here is a brief interpretation of the data: A small percentage of participants, 5.71%,



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strongly disagree that they have received funding for their MVP. This indicates that a minority of respondents are confident that they have not received funding for their initial product. A substantial portion, 25.71%, disagree with the statement, suggesting that they believe they have not received funding for their MVP. However, it's worth noting that this is not a strong disagreement. The majority of respondents, at 37.14%, neither agree nor disagree with the statement. This indicates a significant degree of uncertainty or lack of clarity regarding whether they have received funding for their MVP. A similar percentage, 25.71%, agree with the statement, suggesting that they believe they have received funding for their MVP. A small percentage, 5.71%, strongly agrees with the statement, indicating a high level of confidence that they have received funding for their initial product.

#### Recommendations

To address the uncertainty surrounding the funding status of Minimum Viable Products (MVPs), it's imperative to conduct more detailed inquiries, such as additional interviews or surveys, to gather comprehensive data on the funding situation. For those lacking funding but seeking it for their MVPs, support mechanisms should be established, offering guidance on fundraising, connections to potential investors, and resources to enhance MVP quality. Mentorship programs and educational resources are vital for entrepreneurs navigating funding complexities, while facilitating access to investment networks can help connect them with relevant funding sources. Tailored support should be provided based on individual funding needs and challenges. Additionally, continued research is necessary to identify factors contributing to respondents' uncertainty, informing targeted interventions and support initiatives.

Table 9: Does your startup have a validated financial forecast?

Agreeableness	Frequency	Percentage
Strongly		
Disagree	0	0
Disagree	5	14.29
Neither Agree		
nor Disagree	7	20
Agree	19	54.29
Strongly Agree	4	11.43

The data (Table 9) presented in the above table represents the responses of participants regarding whether their startup has a validated financial forecast. Responses are categorized into five levels of agreement: "Strongly Disagree," "Disagree," "Neither Agree nor Disagree," "Agree," and "Strongly Agree." Here is a



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brief interpretation of the data: No respondents strongly disagree that their startup has a validated financial forecast. This indicates that none of the participants express strong disagreement with the statement. A small percentage (14.29%) disagree with the statement, suggesting that some respondents believe their startup does not have a validated financial forecast. However, this disagreement is not prevalent. A significant portion (20%) neither agrees nor disagrees with the statement. This implies a degree of uncertainty or lack of clarity regarding the presence of a validated financial forecast in their startup. The majority (54.29%) of respondents agree that their startup has a validated financial forecast. This suggests that a substantial number of participants believe that their financial projections have been validated. A smaller percentage (11.43%) strongly agrees with the statement, indicating a high level of confidence in the presence of a validated financial forecast for their startup.

#### Recommendations

To ensure the accuracy of financial forecasts, startups should establish clear validation processes, which may involve seeking expert advice, conducting market research, or analyzing historical data. Educational resources can aid in understanding the importance of validated forecasts, while mentorship from experienced professionals can offer valuable guidance. Startups should implement monitoring and review mechanisms to maintain accuracy over time. Further investigation into the reasons behind uncertainty can help address barriers to validation. Access to industry benchmarks can assist in aligning forecasts with market standards, ultimately enhancing investor confidence and increasing funding opportunities.

Table 10: Are you satisfied in terms of the grant provided by your own state where your startup is functional?

	Frequency	Percentage
Very Dissatisfied	2	5.88
Dissatisfied	9	26.47
Neutral	17	50
Satisfied	6	17.65
Very Satisfied	0	0

The data (Table 10) in the above table represents the responses of participants regarding their satisfaction with the grant provided by their own state where their startup is functional. Responses are categorized into five levels of satisfaction: "Very Dissatisfied," "Dissatisfied," "Neutral," "Satisfied," and "Very Satisfied." Here is a brief interpretation of the data:

A small percentage (5.88%) of respondents expressed being very dissatisfied with the grant provided by their state. This indicates a high level of dissatisfaction among a minority of participants. A substantial portion (26.47%) indicated being dissatisfied with the state grant. This suggests that a significant number of participants have reservations or concerns about the grant provided. The majority (50%) of respondents selected "Neutral," indicating a lack of strong positive or negative sentiment regarding their satisfaction



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with the state grant. This suggests a balanced perspective among a significant portion of participants. A notable percentage (17.65%) expressed satisfaction with the state grant. This indicates that some participants are content with the support provided by their state. No respondents indicated being very satisfied with the state grant, suggesting that no one had an overwhelmingly positive view of the grant.

#### **Recommendations**

States should establish effective feedback mechanisms to understand startup founders' concerns and expectations regarding grant programs, enabling tailored support. Transparency in application and disbursement processes, coupled with educational outreach, ensures clear understanding and realistic expectations. Regular evaluation and improvement based on feedback enhance program impact and alignment with evolving startup needs. Customized grant options catering to diverse startup types and stages are crucial, complemented by a supportive ecosystem offering mentorship, networking, and resources. Awareness campaigns should highlight grant benefits, while engaging stakeholders in decision-making fosters inclusivity and valuable insights from entrepreneurs.

Satisfaction Frequency Percentage Very Dissatisfied 2 5.71 Dissatisfied 10 28.57 Neutral 15 42.86 8 Satisfied 22.86 0 Very Satisfied

**Table 11: Financial assistance from the incubator?** 

The data (Table 11) provided in the table represents the responses of participants regarding their satisfaction with the financial assistance provided by the incubator. Responses are categorized into five levels of satisfaction: "Very Dissatisfied," "Dissatisfied," "Neutral," "Satisfied," and "Very Satisfied." Here is a brief interpretation of the data:

A small percentage (5.71%) of respondents expressed being very dissatisfied with the financial assistance provided by the incubator. This indicates a high level of dissatisfaction among a minority of participants. A substantial portion (28.57%) indicated being dissatisfied with the financial assistance from the incubator. This suggests that a significant number of participants have reservations or concerns about the support provided. The majority (42.86%) of respondents selected "Neutral," indicating a lack of strong positive or negative sentiment regarding their satisfaction with the financial assistance from the incubator. This suggests a balanced perspective among a significant portion of participants.

A notable percentage (22.86%) expressed satisfaction with the financial assistance from the incubator. This indicates that some participants are content with the support they have received. No respondents indicated being very satisfied with the financial assistance, suggesting that no one had an overwhelmingly positive view of the support.



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#### Recommendations

Incubators should establish effective feedback mechanisms to understand startups' concerns and expectations regarding financial assistance, enabling improvements in support provision. Transparency in the process, coupled with tailored support customized to startups' diverse needs, fosters trust and effectiveness. Educational programs and mentorship aid in optimizing the use of financial assistance, while continuous monitoring and evaluation inform adjustments for greater impact. Benchmarking against industry standards ensures competitiveness, and involving startups in program design enhances relevance. Promoting success stories inspires and motivates others within the incubator community, fostering a culture of achievement and support.

Table 12: Opinion of founders on various aspects related to Marketing

Particulars	Mean	SD
Perfectionism	7	4.53
Marketing Confidence	7	4.64
Target audience difficulty	8.75	8.72
PR media support	8.75	8.78
Showcase Facility	8.75	7.54
Market Validation	7	5.34

The (Table No: 12)presents the perspectives of founders on various marketing-related aspects considered in this study, including perfectionism, marketing confidence, target audience difficulty, PR and media support, showcase facilities, and market validation. Respondents were asked to rate these variables using a 5-point scale as follows: (a) 'Strongly Agree', 'Agree', 'Neither Agree nor Disagree', 'Disagree', 'Strongly Disagree'. (b) 'Strongly Confident', 'Confident', 'Not Confident', 'Not Strongly Confident'. (c) 'Very Satisfied', 'Satisfied', 'Neutral', 'Dissatisfied', 'Very Dissatisfied'. A mean value of 7 on this rating scale suggests that, on average, respondents tended to express agreement, leaning toward 'Strongly Agree' or 'Agree,' with the statement concerning the impact of perfectionism on product launch

delays. This indicates a strong consensus among the respondents regarding the significance of perfectionism in the context of the startup or team under examination.

A mean value of 7 on this rating scale implies that, on average, respondents predominantly fell within the 'Strongly Confident' to 'Confident' range when evaluating their marketing team and strategies. This points to a widespread consensus among respondents regarding their high level of confidence in the effectiveness of their marketing efforts. With a mean value of 8.75 on this rating scale, it can be inferred that respondents possess a notably high level of confidence, either 'Strongly Confident' or 'Confident,' in their ability to identify their target audience. This signifies a nearly unanimous consensus among respondents that they excel in this crucial aspect of their business operations. A mean value of 8.75 on this rating scale indicates



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that respondents, on average, expressed an overwhelmingly positive level of satisfaction with the PR support and media presence they encountered during the initial stages of their ventures.

This underscores a near-unanimous consensus among respondents that their experiences in this regard were highly favorable. Similarly, a mean value of 8.75 suggests that most respondents reported high levels of satisfaction with the international product showcase. This finding indicates that their international marketing endeavors and product presentation strategies have been successful in achieving their objectives and leaving a favorable impression on a global scale.

Lastly, a mean value of 8.75 indicates that the majority of respondents either 'Strongly Agree' or 'Agree' that they have encountered challenges in terms of product market validation. This level of agreement underscores the importance of acknowledging and addressing these challenges as inherent elements of the startup journey.

#### Recommendations based on data

Startups in Kerala face diverse marketing challenges encompassing perfectionism, target audience identification, PR support, showcase facilities, and market validation. To address these obstacles, startups can adopt several strategies. They should prioritize launching products swiftly while embracing imperfection, emphasizing the "minimum viable product" concept. Continuous learning through marketing education and adaptation to evolving trends are vital. Thorough market research and data analytics aid in refining target audience identification. Strategic engagement with media and influencers enhances PR support, while investing in visually appealing showcase facilities and digital platforms broadens exposure. Validation via pilot programs and feedback loops ensures product-market fit. Collaboration with industry peers, accelerators, and incubators facilitates access to resources and mentorship, fostering collective growth. Through these measures, startups can effectively navigate marketing challenges and establish a robust market presence, emphasizing constant adaptation and customer-centricity. Product validation is a crucial step in the development process that ensures that a product meets the needs of its target market. However, this process is often fraught with challenges that can hinder success. This paper aims to explore the various challenges faced by businesses during product validation and to provide a data-driven discussion of these challenges.

**Table 13: Product validation challenges** 

	Frequency	Percentage
Market research	8	8.42
Marketing	15	15.79
Not the right team	4	4.21
Lack of business model	8	16.84
Lack of funding	25	52.63
Marketing Certification	1	1.05



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Product is only released		
for early access. So		
unable to answer this at		
this point of time.	1	1.05

The data(Table 13) analysis reveals several key insights into the challenges faced during product validation: Lack of Funding (52.63%): The most prevalent challenge reported by respondents is a lack of funding. This highlights the critical role financial resources play in product validation. It's imperative for organizations to secure adequate funding to overcome this obstacle. Funding can be secured through various means, including investments, grants, or crowdfunding. Marketing (15.79%): Marketing challenges come in second. This encompasses issues related to promoting the product effectively. Developing a comprehensive marketing strategy that addresses the unique aspects of the product and the target audience is essential for successful validation.

Lack of Business Model (16.84%): Nearly 17% of respondents cited the lack of a viable business model as a significant challenge. This indicates that product development teams need to focus on building a sustainable and profitable business model from the outset.

Market Research (8.42%): Market research is crucial to understanding customer needs and market dynamics. A lack of proper market research can hinder product validation efforts. Organizations should invest in thorough market research to bridge this gap. Not the Right Team (4.21%): A smaller but notable percentage of respondents reported issues related to team composition. Having the right team with the required skill set and expertise is essential for effective product validation.

Marketing Certification (1.05%): A very small percentage of respondents mentioned a lack of marketing certification. While this challenge is less common, it's still important to recognize the value of marketing expertise and training.

Product in Early Access (1.05%): A similar percentage cited their inability to answer due to the product being in early access. This indicates the difficulty in assessing certain challenges until a product is fully launched.

This research paper has provided a comprehensive analysis of the challenges encountered during the product validation process. The data highlights that securing funding, effective marketing, and developing a robust business model are the key obstacles faced by businesses. Addressing these challenges through strategic planning and resource allocation is essential for successful product validation. The findings of this study offer valuable insights for organizations looking to improve their product validation processes. Recognizing and addressing these challenges can ultimately lead to more successful product launches and market entry.

### Recommendations

Based on the findings, businesses are advised to take the following actions: prioritize securing diverse funding sources, invest in a robust marketing strategy, develop a sustainable business model, conduct thorough market research to understand the target audience, and ensure the presence of a skilled team. Implementing these recommendations can bolster organizations' ability to overcome product validation challenges and improve the chances of successful product launches. Product certification is a crucial aspect of bringing new products to the market. In the context of startups in Kerala, it is essential to understand



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the specific challenges they face when seeking product certification. This paper aims to investigate these challenges and provide valuable insights for both startups and regulatory authorities.

Table 14: Challenges in receiving product certification

	Frequency	Percentage
Strongly agree	6	17.14
Agree	9	25.71
Disagree	7	20
Neither Agree nor Disagree	9	25.71
Strongly disagree	4	11.43

The data Table (14) analysis reveals several key insights into the challenges faced by startups in Kerala when attempting to receive product certification: Agreement Levels (Strongly Agree and Agree - 42.85%): A significant percentage of respondents (42.85%) agreed that they face challenges in obtaining product certification. This suggests that the majority of startups in Kerala acknowledge the presence of hurdles in the certification process.

Disagreement Levels (Disagree and Strongly Disagree - 31.43%): While a substantial proportion of respondents (31.43%) disagreed with the challenges mentioned, it is important to note that a significant portion of startups still face issues with product certification. Neither Agree nor Disagree (25.71%): A quarter of the respondents neither agree nor disagreed with the statements, indicating a degree of uncertainty or a lack of awareness regarding the certification process.

Conclusion: In conclusion, the data analysis highlights that a substantial number of startups in Kerala perceive challenges in obtaining product certification. While some respondents disagreed with the challenges, it is clear that addressing certification-related issues is crucial for fostering a favorable startup ecosystem in the region.

#### Recommendations

Based on the findings, we recommend the following actions for startups, regulatory authorities, and support organizations in Kerala: Startups should seek mentorship and guidance from experienced experts in product certification processes and collaborate with industry associations for assistance. Regulatory authorities should simplify and streamline certification processes, offering clear guidelines and resources to aid startups in compliance. Support organizations can contribute by providing training programs and workshops tailored to product certification, empowering startups with necessary knowledge and skills. These collaborative efforts will facilitate smoother certification procedures, fostering growth and innovation within Kerala's startup ecosystem.

By implementing these recommendations, startups in Kerala can better navigate the challenges associated with product certification, ultimately fostering innovation and growth in the region. Regulatory authorities and support organizations play a crucial role in facilitating this process by creating an enabling



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environment for startups to succeed in obtaining certifications for their products. The startup ecosystem in Kerala is growing rapidly, but it is essential to understand and address the challenges faced by these ventures as they progress from ideation to scaling up. This paper aims to explore these challenges and provide valuable insights for both startups and support organizations.

Table 15: Challenges from ideation to Minimum viable product and to scale up

Difficulty level	Frequency	Percentage
difficult	17	48.57
Very Difficult	6	17.14
Medium	9	25.71
Easy	3	8.57

The data (Table 15) analysis reveals several key insights into the challenges faced by startups in Kerala at different stages of their journey:

Difficult and Very Difficult (65.71%): Approximately two-thirds of respondents found the journey ideation to MVP development and scaling up to be either difficult or very difficult. This indicates that the majority of startups in Kerala encounter significant challenges during their development and growth phases.

Medium (25.71%): About a quarter of the respondents rated their journey as "medium" in terms of difficulty. This suggests that while these startups faced challenges, they were not as severe as those experienced by others.

Easy (8.57%): A small percentage of respondents found the journey to be easy, indicating that some startups in Kerala were able to navigate these stages with relative ease. In conclusion, the data analysis highlights that a substantial number of startups in Kerala perceive significant challenges during the journey from ideation to MVP development and scaling up. These challenges may include issues related to funding, market validation, talent acquisition, and regulatory hurdles.

#### Recommendations

Based on the findings, we recommend the following actions for startups and support organizations in Kerala: Startups should seek mentorship and advice from experienced entrepreneurs and develop clear business plans. Support organizations should offer targeted programs, workshops, and networking opportunities tailored to startups' needs at each stage. Government initiatives should focus on providing funding, streamlined regulations, and infrastructure support. Implementing these recommendations will help startups overcome challenges and contribute to the growth of Kerala's startup ecosystem. Understanding customer feedback is essential for startups in Kerala, as it helps identify areas for improvement and growth. This paper aims to analyze customer feedback on the effectiveness of a product and its implications for startups in the region.

Table 16: Feedback from the customers regarding the effectiveness of the product



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Good	17	48.57
very good	13	37.14
average	5	14.29

The data(Table 16) analysis yields several significant insights into customer feedback regarding the product's effectiveness:

Good and Very Good (85.71%): The majority of customers (85.71%) provided positive feedback, rating the product as either "Good" (48.57%) or "Very Good" (37.14%). This indicates a high level of customer satisfaction with the product's effectiveness.

Average (14.29%): A minority of customers (14.29%) rated the product as "Average." While this percentage is relatively small, it signifies that there is room for improvement in certain aspects of the product's effectiveness.

In conclusion, the data analysis demonstrates that the majority of customers are satisfied with the product's effectiveness, with a significant proportion rating it as "Good" or "Very Good." This positive feedback is a testament to the product's performance.

#### Recommendations

Continuous improvement is crucial for startups, even when feedback is generally positive. Addressing areas that received "Average" ratings is key, and engaging with customers for detailed feedback is recommended. Establish ongoing channels for customer engagement and feedback collection, such as surveys and regular communication, to understand evolving needs. For products showing effectiveness, consider expanding into new markets or customer segments to maximize potential. Additionally, maintain a competitive edge through vigilant competitive analysis. These measures ensure startups remain adaptable and responsive to market dynamics, fostering long- term success. By implementing these recommendations, startups in Kerala can not only maintain the current level of customer satisfaction but also work towards enhancing the product's effectiveness, attracting new customers, and achieving sustained growth in a competitive market environment.

The descriptive statistics(Table 17) reveal that respondents' opinions regarding the success or failure of the project management methodology adopted by startups in Kerala are diverse. While the mean score leans toward agreement with its success, the median and mode highlight a significant proportion of neutral sentiments. The range and standard deviation further emphasize the variability in opinions.

Mean (8.5): The mean score of 8.5 suggests that, on average, respondents tended to rate the project management methodology adoption as relatively positive, leaning toward agreement with its success.

Median (13): The median score of 13 indicates that the middle response is "Neither Agree nor Disagree." This suggests that a significant portion of respondents were neutral in their assessment of the success or failure of the project management methodology.

Mode (17): The mode of 17 indicates that the most frequent response was "Neither Agree nor Disagree." This further highlights the prevalence of neutral sentiments among respondents.



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Range (16): The range of 16 demonstrates the spread of responses, ranging from "Strongly Agree" to "Disagree." This shows the diversity of opinions among respondents regarding the success or failure of the project management methodology.

Standard Deviation (SD) (2.88): The standard deviation of 2.88 suggests that the responses are somewhat dispersed around the mean. This indicates variability in opinions among respondents. This data suggests that while some respondents perceive the project management methodology as successful, a substantial number are uncertain or neutral in their assessment. To gain a more comprehensive understanding, further qualitative research or in-depth surveys may be necessary to explore the reasons behind these varied perceptions and to identify potential areas for improvement in project management practices within startups in Kerala.

#### 6. Conclusion

In conclusion, the entrepreneurial landscape in Kerala presents both opportunities and challenges for startups. While there is a growing interest in entrepreneurship and support from various stakeholders, startups still encounter significant hurdles. Financial constraints, marketing complexities, and product validation issues emerge as primary challenges, demanding strategic interventions. Incubators and policymakers need to enhance support mechanisms, fostering transparency, tailored assistance, and continuous learning. Startups, on their part, should prioritize securing diverse funding sources, investing in robust marketing strategies, and conducting thorough market research. Collaboration, adaptation, and customer-centricity are crucial for overcoming these challenges. By addressing these obstacles collectively, stakeholders can create an enabling environment where startups thrive, contributing to Kerala's economic growth and innovation ecosystem.

### 7. Acknowledgement

I would like to acknowledge the contribution of my guide Dr.M.S.R Mariyappan for his valued insights and I would also like to acknowledge the help rendered by my co authors and above all the support from my friends and family for helping me to write this paper.

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