Journal of Entrepreneurship and Management
12 (3) 2023, 01-10
http://publishingindia.com/jem/

A Study on the Implications of Venture Capitalists for Software Companies

Srinivas H. N.*, T. K. Srinath**

Abstract

Purpose: The primary aim is to have a thorough understanding of the effects of venture capital (VC) funding on software enterprises. This involves analysing a number of the association's aspects, including its finances, operations, strategy and culture. The purpose of this study is to clarify the best practices for software companies looking to get VC funding. Its specific goal is to investigate how software businesses might use VCs' resources and skills to achieve sustainable and long-term success. Among the ways it serves a wide variety of stakeholders are through insights and contributions to the improvement of scholarly knowledge and industry practices.

Design/Methodology: An organised survey was sent to those who work as investors, executives and founders of software companies. The study's investigation technique included interviewing a wide range of significant participants, including entrepreneurs, VCs and industry experts. The survey included 42 respondents in total, of whom 17 were VCs and 27 were software businesses in Bangalore city that received VC funding.

Findings: The study included the execution of two statistical tests, namely one-way ANOVA and factor analysis, by the researcher. Both tests have shown statistical significance, hence accepting both alternative hypotheses proposed in the research.

Limitations: The study's sample of software businesses could not accurately reflect all software companies with VC funding. Establishing a causal relationship between VC funding and specific outcomes can be challenging. The results of this research may not be simply applied to other software-related sectors or all software firms.

Originality Value: The uniqueness and importance of the research will depend on its ability to provide fresh insights, communicate creative points of view and contribute significantly to both academic understanding and real-world applications in VC and software companies.

Keywords: Venture Capitalist, Venture Capital Financing, Venture Capital Ecosystem, Implications, Software Companies

Introduction

Finance plays a crucial role in both individual and corporate undertakings, exercising an enormous impact on decision-making processes and ultimately impacting the results of several endeavours. Business enterprises often encounter the need to make significant capital outlays in many forms, including but not limited to equipment, facilities or technology. The planning of capital refers to the systematic assessment of various investment options to identify the projects or assets that provide the highest return on investment. Acquiring financial resources to sustain operational endeavours is a fundamental element of business financing. This includes the receipt of loans, the issuance of bonds, the pursuit of equity investments or the utilisation of internal sources of capital. Businesses are required to carefully evaluate and choose the financing choices that align with their specific requirements and financial circumstances. In order to have a financing alternative for business enterprises, Venture capital (VC) financing came into the limelight and was attributed to a confluence of economic, technical and financial forces that are intricately inter-related. The inception of VC may be historically attributed to the first decades of the 20th century, with its subsequent progress and expansion gaining momentum throughout the mid-

* Research Scholar, University of Mysore, Al-Ameen Research Foundation, Karnataka, India.
Email: sri.gangadkar@gmail.com
** Research Supervisor, University of Mysore, Al-Ameen Research Foundation, Karnataka, India.
Email: srinathtk57@gmail.com

20th century. The decade that followed after World War II was characterised by substantial economic development and prosperity inside the United States. The prevailing economic affluence fostered a climate that was favourable for the emergence of entrepreneurial activities and the allocation of resources towards the establishment of new enterprises. VC has often been linked to a specific category of enterprises that exhibit exceptional growth rates and have a significant influence on the global economy (Lerner & Nanda, 2020). The growth of VC financing may be ascribed to its ability to meet the unique financial needs of start-ups and early-stage companies that place a high emphasis on technological innovation. The entity in question assumed a crucial function in facilitating economic expansion, promoting the development of entrepreneurial activities and providing assistance to industries in the vanguard of technical progress. During the mid-20th century, governmental bodies in the United States and several other nations acknowledged the significance of innovation and technology as catalysts for economic development and enhancing competitiveness. The authorities enacted several laws and initiatives aimed at fostering VC investment, such as the provision of tax incentives and the allocation of research funds. Over many decades, VC has emerged as a pivotal element within the innovation ecosystem, facilitating the development of novel technologies, products and industries.

Literature Review

Venture Capital

The financial market's most dynamic area at present is VC (Haritha, 2012). The phrase "venture capital" is composed of two distinct terms, namely "venture" and "capital." The term "venture" refers to an opportunity or attempt that implies a sense of speculation, including the testing of one's luck, whether it is favourable or unfavourable. It entails the presence of risk, hazard or exposure to uncertainty or peril. The word "capital" refers to the necessary resources required to begin a business venture (Jain et al., 2017). In India, VC is flourishing less than 10 Indian-based VC funds existed at the beginning of the 1990s; now, there are more than 500, and total investment has been steadily rising since 2000 (Gonzalo & Kantis, 2021). The last 10 years have seen a surge in VC due to new investment possibilities and increased accessibility of funds for this asset class (Lerner & Nanda, 2020). VC refers to a kind of long-term financing that is characterised by its secured and stable nature (Shetty, 2017; Yua, 2020). VC refers to financial resources that are furnished by experienced professionals that engage in collaborative investment activities with company management in order to support the development of nascent enterprises exhibiting fast growth potential (Jain et al., 2017; Drover et al., 2017). In the majority of Asian countries, the nature of VC may be more appropriately characterised as a private equity business rather than a VC sector. This distinction arises from the fact that a significant portion of the money provided is directed towards established enterprises rather than early-stage entrepreneurial projects (Bruton et al., 2002; Rajan Annamalai & Deshmukh, 2011). VC performs an integral part in facilitating the sustainability of businesses (Clara Wijaya Rosa et al., 2019; Schwienbacher, 2008).

Venture Capitalist

VC is an alternate avenue for acquiring funds beyond conventional financial institutions (Clara Wijaya Rosa et al., 2019). Banks and other financial organisations are required to adhere to the 5C principles prior to extending credit to its clientele. It has been said that credit represents a valuable asset that serves as the primary source of revenue within the banking industry. The level of loan allocation often influences the resulting earnings. Improper processing of payments in the context of channelling might have harmful consequences. Hence, it is essential to do the 5Cs assessment before to extending credit. The five components that are often referred to as the 5Cs' are character, capacity, capital, collateral and condition (Clara Wijaya Rosa et al., 2019). VCs are widely recognised as high-risk financial institutions because to their distinguishing feature of not mandating collateral or interest payments (Clara Wijaya Rosa et al., 2019). The efficacy of VCs is contingent upon their capacity to acquire pertinent information on enterprises with significant growth potential, as well as get privileged access to such businesses. However, evaluating the worth of an emerging company poses challenges, and the presence of other investors might hinder the acquisition of advantageous prospects (Balachandran & Hernandez, 2021). VCs mainly acquire investments from local networks that are confined within certain geographical

boundaries (Shetty, 2017; Balachandran & Hernandez, 2021; Cutler et al., n.d.). In contrast to this inclination, VCs are progressively allocating their investments on a global scale, but with significant variations across enterprises in terms of magnitude, geographical distribution and level of achievement (Balachandran & Hernandez, 2021).

Software Companies

The development of an entrepreneurial ecosystem is a gradual and time-dependent process (Subrahmanya, 2017). The current fast advancement of information and communication technology is fundamentally transforming several aspects of human existence, including both personal routines and commercial practises (Clara Wijaya Rosa et al., 2019). A nascent technology-based firm, characterised by a heightened level of risk during its first phases, may have limitations in conducting an initial public offering or accessing capital markets. Consequently, such enterprises rely on VC investment as a primary source of funding (Shetty, 2017). VCs often allocate their investments towards areas characterised by advanced technology, particularly software companies (Shetty, 2017). India has garnered recognition as a significant reservoir of technology-driven companies inside the global economy (Subrahmanya, 2017). The advent of digitalisation revolutionised several commercial practises in the past, afterwards supplanted by novel methodologies that provide enhanced speed and efficiency (Clara Wijaya Rosa et al., 2019). VC investment has emerged as a crucial source of funding for start-ups globally, specifically those operating in the high-tech sector (Nguyen & Mutum, 2015) (Berger & Hottenrott, 2021). The sector that received the most amount of VC investment continued to be consumer technology (Shetty, 2017). There have been several tempting investment prospects on the demand side. The emphasis of many venture-backed businesses has been on creating fresh applications for technological innovations and the growing popularity of mobile communications (Lerner & Nanda, 2020).

Conceptual Framework

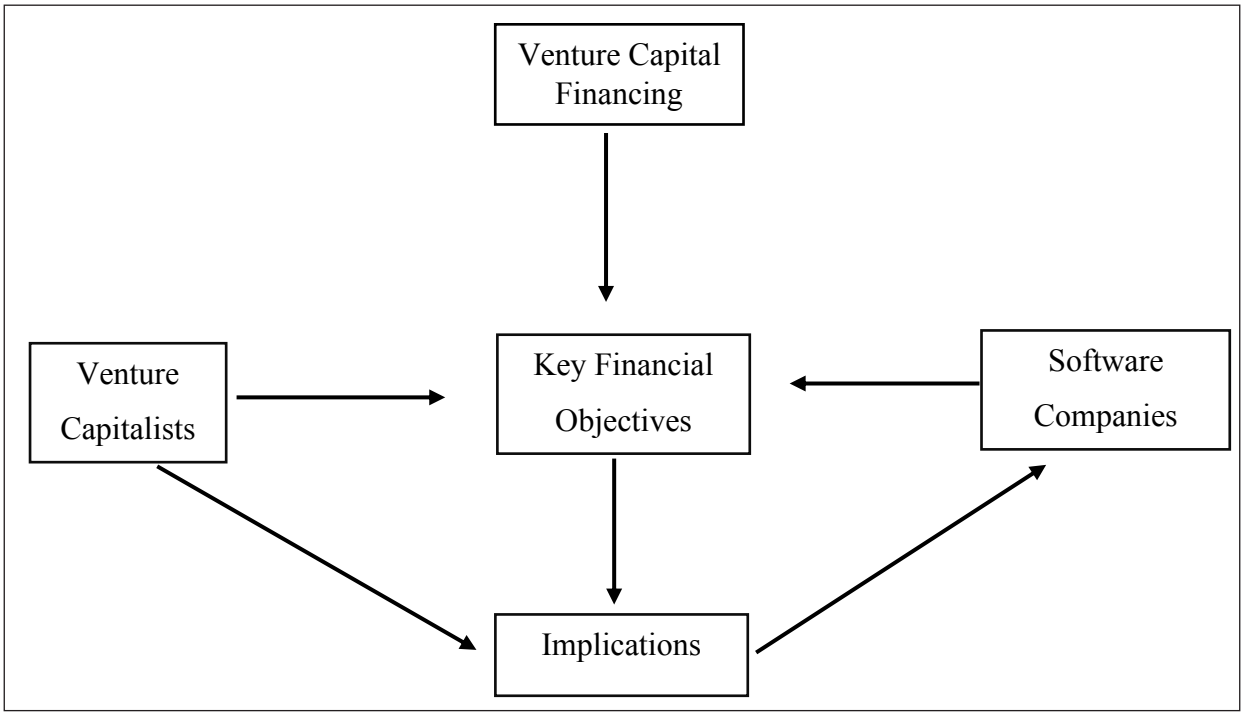

Fig. 1

Research Methodology

Research Context

The present research aims to explore the various impacts of VC investment on software businesses working within the technology industry. The software sector has seen substantial expansion and advancement, with VC companies assuming a crucial function in furnishing financial backing and strategic counsel to both emerging start-ups and existing software enterprises. The objective of this study is to provide a comprehensive understanding of the effects of VC investments on the growth, innovation, strategic decision-making, talent acquisition and overall competitive advantage of software firms. This research attempts to throw light on the inter-dependent connection between VCs and the software industry within the current business environment.

Data Collection

The data collection procedure for this study included framing a structured questionnaire using Google Forms. Since the present research study is based on primary data, data collection is the higher priority and information was gathered from key persons of VC's and managerial officials of software companies.

Sample Size

In Bangalore city, 40 VCs were identified to share the structured questionnaire as they fund software companies, out of which 17 responses were received. Presently, in Bangalore city, there are around 142 private VCs registered under the SEBI regulations. A total of 68 VC-funded software companies were identified in Bangalore city, out of which 25 responses were received from the managerial-grade officials. Presently, in Bangalore, there are among the 190 plus start-up software companies.

Sampling Technique: Judgemental Sampling

Judgemental sampling sometimes referred to as purposive or selected sampling is a non-probability sampling method used in research. Researchers use certain criteria or characteristics to choose sample components that they think will provide the most relevant or illuminating data for the study goals. It is often used in qualitative research methodologies, prioritising a comprehensive understanding and unique insights above statistical representation.

Measurement of Scale Items

The respondents were instructed to evaluate the claims using a Liker-type scale with five response options. The scale included a range of values, with 1 representing "strongly disagree" and 5 representing "strongly agree." The available response choices were a rating of 2 for "disagree," a rating of 3 for "neither disagree nor agree," and a rating of 4 for "agree."

Objectives of the Study

- To examine whether software companies and VCs have the same key financial investment goals when entering a contract.
- To study the implications of VCs in software companies.

Hypothesis of the Study

H_1: There is a significant difference in the key financial investment goals between VCs and software companies.

H_2: There is a significant relationship between factors chosen as implications for VCs in software companies.

Analysis and Interpretation

One-Way Anova

H_0: There is no significant difference in the key financial investment goals between VCs and software companies.

H_1: There is a significant difference in the key financial investment goals between VCs and software companies.

In this study, the researchers examined the significant difference in key financial investment objectives between VCs and software companies that have received VC

funding. The study identified 10 factors as crucial financial investment objectives and collected responses from participants using a scale ranging from "1 = strongly agree, 2 = agree, 3 = neutral, 4 = disagree and 5 = strongly disagree." The table shown below provides a summary of the descriptive statistics for each component, illustrating the degree of readiness among VCs and VC-funded software businesses to accept these characteristics as significant financial investment goals.

Table 1: Descriptive Statistics for Key Financial Investment Objectives

Descriptive Statistics			
	N	***Mean***	***Std. Deviation***
Investing in high-quality stocks yields significant returns	42	**1.60**	.665
Focuses on growth and scaling	42	2.17	.537
Focuses on early-stage start-ups with promising ideas and innovative technologies	42	1.90	.850
Market domination and leadership	42	1.93	.513
Capital appreciation and equity ownership	42	1.79	.717
Portfolio diversification involves diversifying investments	42	1.95	.492
Benefit of expertise, industry connections and strategic guidance to start-ups	42	1.88	.395
Explore exit opportunities for maximising returns	42	2.45	.705
Company faces inherent risks due to uncertain nature	42	**2.76**	1.340
Disruption and innovation	42	2.07	.640

Interpretation

The above table describes the mean score of each factor under the considered scale of strongly agree to strongly disagree, in which "investing in high-quality stocks yields significant returns" has the least mean score (mean = 1.60; SD = 0.665), which shows that the response received as willingness for the above-mentioned factor lies between strongly agree and agree. "Company faces inherent risks due to uncertain nature" has the highest mean score and deviation (mean = 2.76; SD = 1.340), which means that the response received was neutral for the above-mentioned factor.

Except for this factor, respondents "agree" with the remaining factors for consideration as key financial investment objectives. For selection criteria, they are:

Focuses on growth and scaling (mean = 2.17; SD = 0.537); focuses on early-stage start-ups with promising ideas and innovative technologies (mean = 1.90; SD = 0.850). Market dominance and leadership (mean = 1.93; SD = 0.513); capital appreciation and equity ownership (mean = 1.79; SD = 0.717); Portfolio diversification involves diversifying investments (mean = 1.95; SD = 0.492); Benefit of expertise, industry connections and strategic guidance to start-ups (mean = 1.88; SD = 0.395); explore exit opportunities for maximising returns (mean = 2.45; SD = 0.705); disruption and innovation (mean = 2.07; SD = 0.640).

Table 2: Descriptive Statistics for VC Firms and VC Backed Software Companies

Descriptives								
Investment Objectives								
	N	***Mean***	***Std. Deviation***	***Std. Error***	***95% Confidence Interval for Mean***		***Minimum***	***Maximum***
					Lower Bound	***Upper Bound***		
Venture Capital Firms	17	1.8235	.48545	.11774	1.5739	2.0731	1.30	2.80
VC Funded Software Companies	25	2.2040	.14283	.02857	2.1450	2.2630	2.00	2.30
Total	42	2.0500	.37368	.05766	1.9336	2.1664	1.30	2.80

Test of Homogeneity of Variances					
		Levene Statistic	df1	df2	Sig.
Investment Objectives	Based on Mean	30.334	1	40	.000
	Based on Median	13.968	1	40	.001
	Based on Median and with adjusted df	13.968	1	25.176	.001
	Based on trimmed mean	25.957	1	40	.000

Interpretation

Based on the above-mentioned findings, the hypothesis examines the difference in the primary financial investment goals between VCs and software businesses. Given that the homogeneity of variances between the two groups has been established, it may be concluded that the p-value for Levene's statistic is less than 0.05, indicating statistical significance. The results of the test reveal a substantial difference between the mean scores of VC businesses (M = 1.8235, SD = 0.48545) and VC-funded software companies (M = 2.2040, SD = 0.14283).

Table 3: ANOVA

ANOVA					
Investment Objectives					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.465	1	1.465	13.753	.001
Within Groups	4.260	40	.107		
Total	5.725	41			

Interpretation

Based on the results mentioned above, it can be inferred that the p value for the F-statistics is 0.01, a value that is lower than the traditional significance level of 0.05. The analysis of variance (ANOVA) findings indicate a significant difference in the primary financial investment intentions across the groups ($F1, 40 = 13.753$, $p < 0.05$). Therefore, the alternative hypothesis is accepted and considered statistically significant. As a result, the null hypothesis is rejected, suggesting the presence of a statistically significant difference among the primary financial investment goals when choosing software businesses.

Factor Analysis

The Factor Analysis test has been conducted with 0.01 and 0.05 level of significance to test the below hypothesis.

H_0: There is no significant relationship between factors chosen as implications for VCs in software companies.

H_1: There is a significant relationship between factors chosen as implications for VCs in software companies.

Table 4: KMO and Bartlett's Test

KMO and Bartlett's Test		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.668
Bartlett's Test of Sphericity	Approx. Chi-Square	597.877
	df	55
	Sig.	.000

Interpretation

A Kaiser-Meyer-Olkin (KMO) statistic value of 0.668, which is higher than the advised threshold of 0.5, supports the aforementioned findings and suggests that the dataset is appropriate for factor analysis. Additionally, Bartlett's test of sphericity indicates that the factors under investigation are statistically significant, as the p-value is lower than the predetermined level of significance.

Table 5: Total Variance Explained

Total Variance Explained									
	Initial Eigenvalues			*Extraction Sums of Squared Loadings*			*Rotation Sums of Squared Loadings*		
Component	*Total*	*% of Variance*	*Cumulative %*	*Total*	*% of Variance*	*Cumulative %*	*Total*	*% of Variance*	*Cumulative %*
1	6.040	54.913	54.913	6.040	54.913	54.913	3.923	35.664	35.664
2	1.975	17.954	72.867	1.975	17.954	72.867	3.190	28.998	64.662
3	1.139	10.352	83.219	1.139	10.352	83.219	2.041	18.557	83.219
4	.878	7.978	91.197						
5	.405	3.678	94.875						
6	.311	2.825	97.699						
7	.095	.867	98.566						
8	.082	.747	99.313						
9	.050	.453	99.766						
10	.019	.169	99.936						
11	.007	.064	100.000						

Extraction Method: Principal Component Analysis.

Interpretation

Evidently, three variables account for 83.219% of the observable changes in the entire dataset, as demonstrated by the table containing the explained total variance stated above. Because these variables have Eigen values greater than 1, they have been considered significant. The three components each indicate the following percentages of variance: 35.664%, 28.998% and 18.557%, respectively.

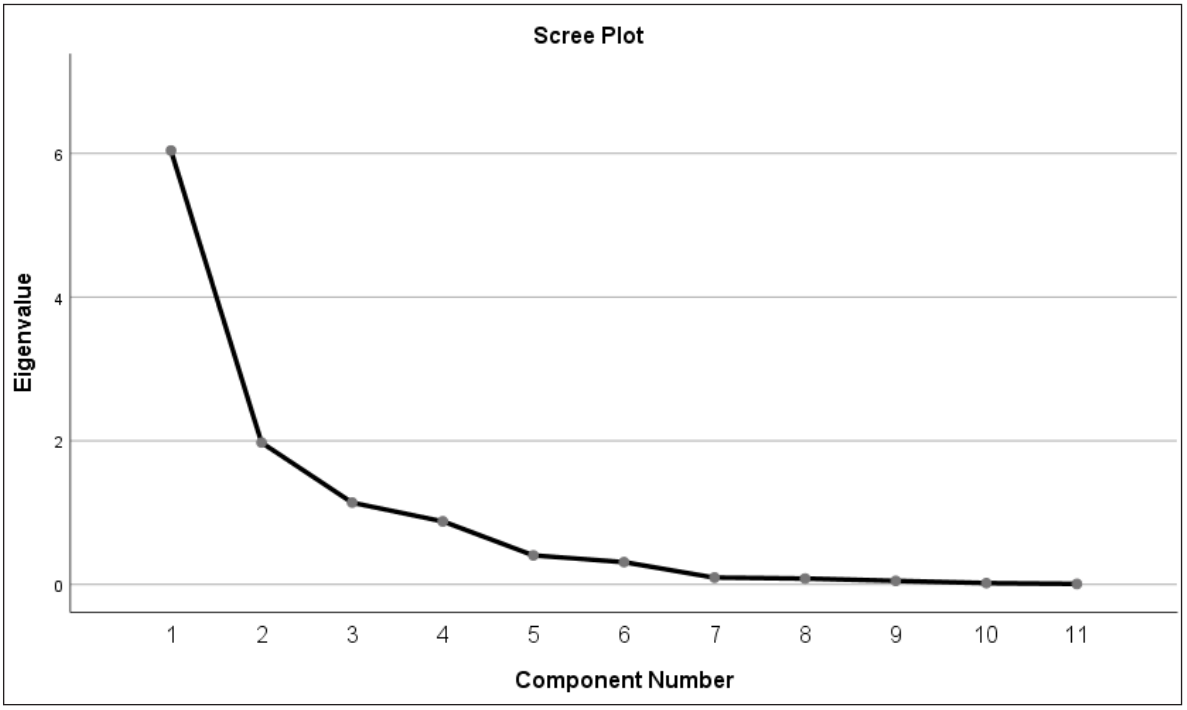

Fig. 2

The above scatter plot illustrates the three factors that possess many eigenvalues, indicating their suitability for future investigation into the loading of variables associated with each extracted component.

Table 6: Component Matrix along with Communalities

Component Matrix[a]				*Communalities*
	Component			
	1	*2*	*3*	*Extraction*
IMP 1	.761	-.329	.254	.751
IMP 2	.509	.199	.257	.365
IMP 3	.507	.642	-.490	.910
IMP 4	.805	-.159	-.459	.884
IMP 5	.889	-.188	-.345	.944
IMP 6	.134	.957	.019	.934
IMP 7	.902	-.295	-.187	.936
IMP 8	.719	.129	.573	.862
IMP 9	.847	.351	.097	.850
IMP 10	.827	-.400	.070	.848
IMP 11	.870	.226	.246	.868

Extraction Method: Principal Component Analysis.[a]
a. 3 components extracted.

Interpretation

The component matrix, which comprises the factor loadings of each component extracted using the principal component method, is shown in the table above. Communalities indicate the proportion of the variation in the variables that can be correlated to the factors. Communalities are defined as the sum of squares of each value of a given variable. IMP 3, IMP 5, IMP 6 and IMP 7 has the largest communalities when a cut-off of 0.9 is used. This implies that these variables have been significantly affected by the underlying causes taken as a whole.

****** IMP – Implications**

IMP 1: Innovation funding

IMP 2: Rapid growth and scaling

IMP 3: Progression of technology

IMP 4: Introduce innovative business models techno-logies and problem solving methods

IMP 5: New rivals increase software industry rivalry

IMP 6: Generate jobs particularly for skilled workers

IMP 7: Strong start-up ecosystem includes mentoring networking and start-up resources

IMP 8: A value influences future investment rounds and possible exits via acquisitions or IPOs

IMP 9: Start-up strategy might be influenced by VCs' need for high-return exits

IMP 10: Experienced investors may advice but effect might be helpful or negative

IMP 11: Technology centre growth in various places

Table 7: Rotated Component Matrix[a]

Rotated Component Matrix[a]			
	Component		
	1	*2*	*3*
IMP 1	.552	.628	-.230
IMP 2	.154	.552	.192
IMP 3	.384	.062	.871
IMP 4	.907	.149	.199
IMP 5	.918	.284	.148
IMP 6	-.295	.252	.885
IMP 7	.884	.394	-.005
IMP 8	.164	.912	.055
IMP 9	.429	.674	.460
IMP 10	.730	.521	-.211
IMP 11	.414	.780	.297

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalisation.[a]
a. Rotation converged in 6 iterations.

Interpretation

Three components were extracted from the aforementioned research using the Principal Component Analysis extraction technique and Kaiser's Varimax rotation approach. Each extracted component's factor loadings underwent normalisation. The factors were given names using the rotated component matrix, which has a factor loading cut-off value of 0.80. IMP 4 (introduce innovative business models, technologies and problem-solving methods), IMP 5 (new rivals increase software industry rivalry) and IMP 7 (strong start-up ecosystem includes mentoring, networking and start-up resources)

make up Factor 1. This factor might be referred to as the "Innovation & Networking Factor."

The influence of a value on next investment rounds and prospective exits via acquisitions or initial public offers (IPOs) is covered by the second element, which is IMP 8. This phenomenon is known as the "Entry & Exit Factor."

The Third component encompasses IMP 3, which pertains to the advancement of technology, and IMP 6, which focuses on the creation of employment opportunities, especially for those with specialised skills. This factor might be referred to as the "Technology & Work Progress Factor."

As a result of the KMO and Barlett's tests of sphericity, it is possible to infer that the factor analysis performed is statistically significant. When the p-value is less than the predefined significance levels of 1% and 5%, this conclusion is made. Consequently, it is decided that the alternative hypothesis is supported and that the results are statistically significant.

Conclusion

VCs play an essential function in driving innovation inside software companies by offering not only financial backing but also strategic direction and networking opportunities that facilitate the cultivation of creativity and the advancement of product development. Software businesses that get financial support from VCs tend to exhibit rapid development, leading to an expansion of their market share and a more pronounced impact on industry dynamics compared to software companies that do not receive such funding. The researcher's study on the effects of VCs on VC-funded software firms reveals significant assistance from VCs in advancing technology, generating jobs and creating an advantageous environment for future entrepreneurs. The study included the execution of two statistical tests, namely one-way ANOVA and factor analysis, by the researcher. Both tests have shown statistical significance, hence accepting both alternative hypotheses proposed in the research.

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