

Online Interactive Entrepreneur Club

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Abstract:- Entrepreneurs, the pioneers of innovation, face challenges such as limited funding and difficulties collaborating within their industry. The Entrepreneurs Interactive Club emerges as a multifaceted solution hub, providing accessible funding avenues, fostering collaboration, and enhancing connectivity. Rooted in a brief history of overcoming traditional obstacles, this dynamic platform revolutionizes how entrepreneurs connect, offering real-world applications for partnerships, exploring funding opportunities, and overcoming connectivity challenges. The project aims to create a user-friendly space, leveraging smart technology to simplify networking and collaboration challenges while focusing on offering funding opportunities and serving as a holistic support system. This innovative initiative not only addresses current obstacles but also reflects a commitment to empowering entrepreneurs and cultivating a dynamic ecosystem of growth and collaboration. Essentially, the Entrepreneurs Interactive Club is more than just a solution; it's a transformative force that envisions a landscape where entrepreneurs flourish, connect, and support, marking a pivotal step in redefining the entrepreneurial experience and fostering a collaborative ecosystem for sustained growth and success.

Keywords:- *Entrepreneurs, Innovation, Funding, Collaboration, Connectivity, Networking, User-Friendly, Holistic Support, Multifaceted, Decision-Making, Partnerships.*

I. INTRODUCTION

Entrepreneurs, the driving force behind innovation and economic progress, are the vanguards of transformative ideas. In their dynamic journey through the business landscape, these visionary individuals embody resilience, risk-taking, and the formidable power of ideas. Their relentless pursuit of groundbreaking concepts shapes industries and propels societal advancement. Entrepreneurs serve as catalysts for change, contributing significantly to economic growth and job creation. The entrepreneurial spirit encapsulates the essence of pushing boundaries, embracing challenges, and navigating uncertainties with a commitment to creating positive change.

Despite their pivotal role, entrepreneurs grapple with various challenges that can impede their journey. One of the foremost obstacles is the limited availability of funding opportunities. Securing adequate financial resources remains a significant hurdle, hindering the realization of visionary ideas and innovative projects. This financial constraint underscores the importance of creating avenues for accessible funding to empower entrepreneurs in transforming their concepts into tangible, impactful ventures. Additionally, entrepreneurs face challenges in

building collaborations within their industry. Overcoming barriers to partnerships is crucial for unlocking growth opportunities and fostering a collaborative environment that nurtures innovation and shared success.

In response to the multifaceted challenges entrepreneurs encounter, the Entrepreneurs Interactive Club emerges as a strategic solution hub. This innovative platform addresses the funding gap by providing accessible avenues for financial support. By connecting entrepreneurs with funding resources, the club becomes a catalyst for turning visionary ideas into actionable projects. Moreover, the club acts as a nexus for collaboration within the entrepreneurial ecosystem, facilitating partnerships and synergies among industry players. Through organized events, networking sessions, and shared insights, the Entrepreneurs Interactive Club enhances connectivity, offering a supportive environment where entrepreneurs can thrive, share experiences, and collectively contribute to the ever-evolving landscape of innovation and business.

II. RELATED WORKS

In [4], our application enables users to identify and capitalize on entrepreneurial opportunities. This facilitates the translation of conceptual ideas into meticulously structured and actionable business plans. Additionally, the app supports users by demonstrating competence in mobilizing and securing the resources essential for the successful launch of a new venture.

In [5], entrepreneurial discovery was influenced by individual social capital, as revealed in an empirical study involving 1700 entrepreneurs. These findings indicate that strong network support significantly enhances the likelihood of both survival and sales growth.

In [6] an evolving business environment, startups can strengthen their online presence by integrating social media marketing strategies. This approach facilitates cost-effective engagement with potential customers, enhances brand visibility, and provides real-time feedback, underscoring the importance of credibility building through authentic narratives and the strategic use of social media analytics for refining marketing strategies.

[7] Social network theory is acknowledged not just as a tool for entrepreneurship but also as a notable factor impacting entrepreneurial conduct. Going beyond a broad introduction to social network theory, this research investigates unique viewpoints regarding the complex relationship between social networks and entrepreneurship. More specifically, it examines the intricacies of social networks and their impact on the entrepreneurial intentions, identification of opportunities, entrepreneurial orientation, and innovative capabilities of emerging ventures. The

provided insights tackle crucial matters in both the realm of entrepreneurship and academic exploration.

[8]The analysis delves into the fundamental aspects of social network theory. This underscores the significance of the network as an autonomous variable in acquiring information and resources. The study specifically concentrates on entrepreneurs' skills in comprehending, owning, cultivating, and leveraging social networks, establishing a basis for thorough analysis and future investigation.

[9]Pitching Investor Relations involves concise presentations to attract investments, emphasizing profitability, growth, and low risk. This serves as a key corporate proposal, leveraging digital communication for efficiency through multimedia and interactivity. To win investor confidence, entrepreneurs must convey clear, unbiased information about new projects. Digital technology enhances speed and engagement, allowing participants to exchange information and roles. This research delves into the subtleties of utilizing pitching as a means of personal communication within the digital landscape of Investor Relations.

III. ONLINE INTERACTIVE ENTREPRENEUR CLUB

In this project, our primary objectives revolve around establishing the Online Interactive Entrepreneur Club as a comprehensive support system. We aim to address the challenges of connection and funding for entrepreneurs. Through the integration of cutting-edge machine learning models, we strive to offer intelligent recommendations that support investors in discovering effective funding opportunities. Our commitment extends to implementing robust security measures, ensuring a safe environment for users to connect globally through a user-friendly web-based platform. The major contributions include creating a unified space for seamless user experiences, integrating a funding-assisting model based on machine learning, and simplifying networking challenges for entrepreneurs. Ultimately, our objectives centre on empowering entrepreneurs and investors, and fostering a dynamic community within the entrepreneurial ecosystem.

The main aim of this project is to:

- Establish the Online Interactive Entrepreneur Club as a comprehensive support system.
- Address challenges related to connection and funding for entrepreneurs.
- Integrate cutting-edge machine learning models for intelligent funding recommendations, emphasizing empowerment for entrepreneurs and investors within the ecosystem.

IV. DESIGN

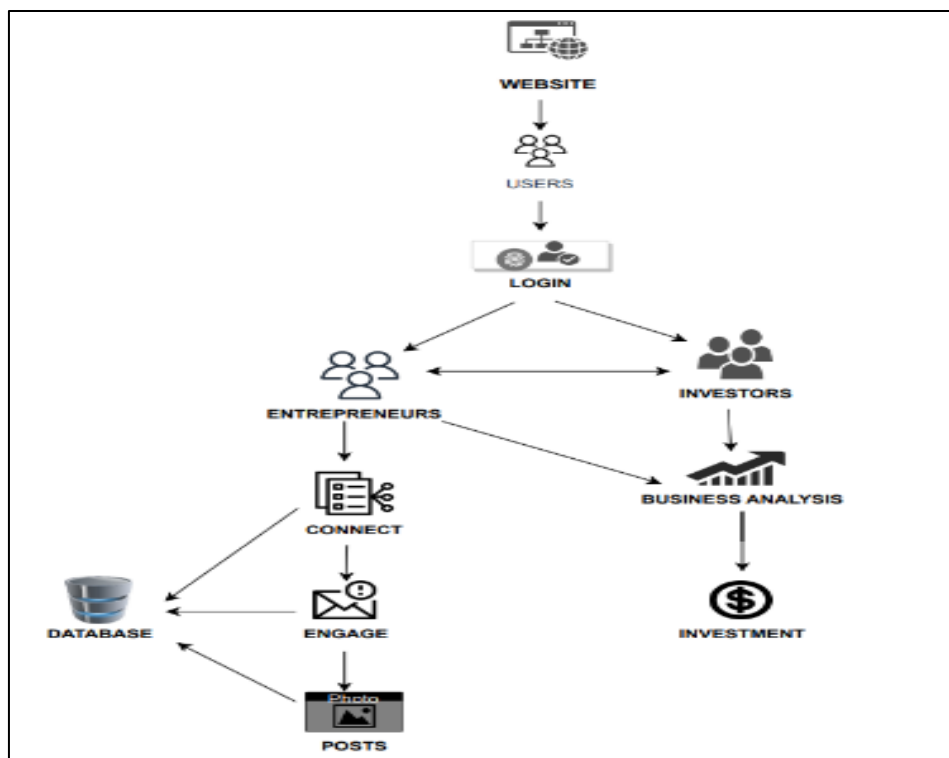


Fig. 1: Block Diagram

A. Use Case Diagram

The fundamental goal of a use case diagram is to demonstrate the system functions associated with each actor and delineate the roles undertaken by the actors within the system.

➤ **ADMIN**

Administrators utilize the dashboard to access essential system data, and the registration process entails adding new users or entities.

➤ **USERS**

Users can add friends, potentially by searching for them and sending friend requests.

➤ **INVESTOR**

Investors engage in conversations with other users using the chat feature, and they also have the ability to submit project or idea pitches.

➤ **LOGOUT**

Users, including administrators, regular users, and investors, can choose to log out, thereby concluding their sessions.

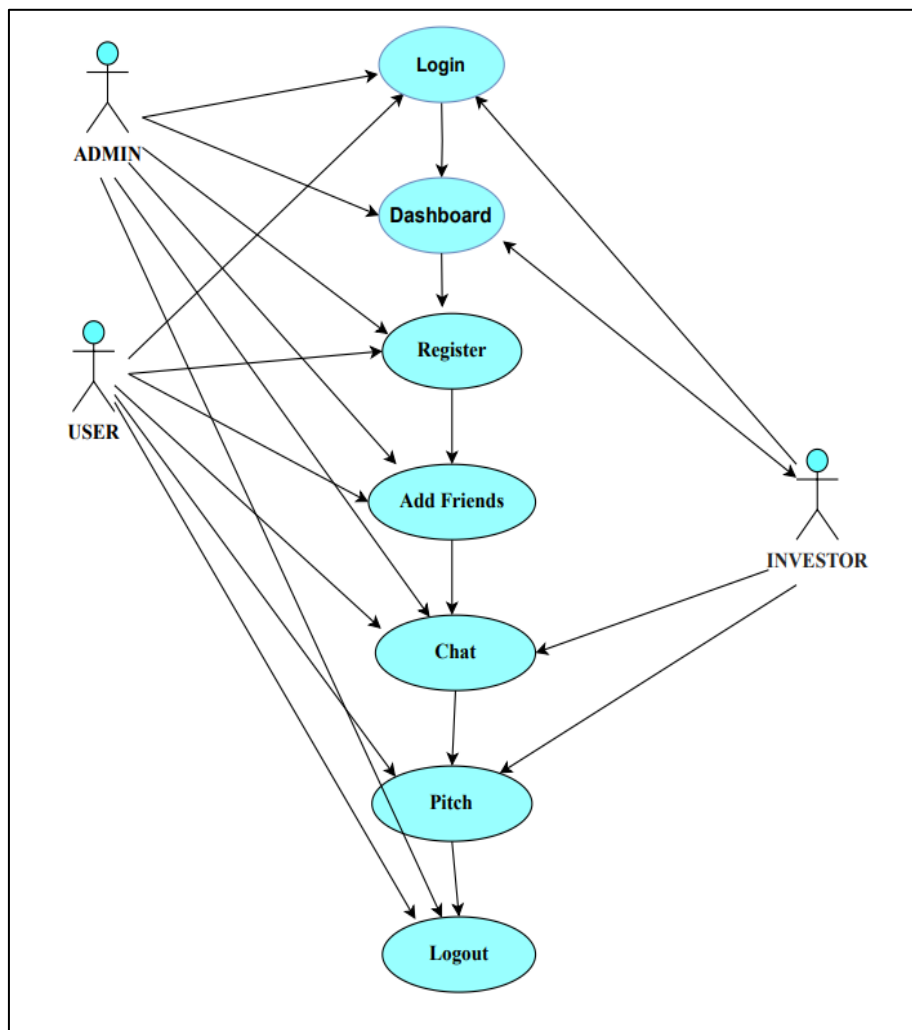


Fig. 2: Use Case Diagram

B. Sequence Diagram

A sequence diagram within the Unified Modeling Language (UML) falls under the category of interaction diagrams, depicting the interactions and sequential order of processes. A sequence diagram for an entrepreneur club visually represents the interactions and flow of activities within the club's processes.

- The user enters login credentials, triggering a validation process on the server side. The server, after validating the credentials, responds with the outcome of the login request.

- The user's interaction extends to the registration process, where details are sent to the server for storage. Results of the registration are communicated back to the user, shaping a seamless registration experience.
- Friends are added through the application, and corresponding friend requests are sent, stored, and managed by the server. Messaging functionalities involve the user sending messages to friends, with outcomes and storage results relayed between the client app and the server.

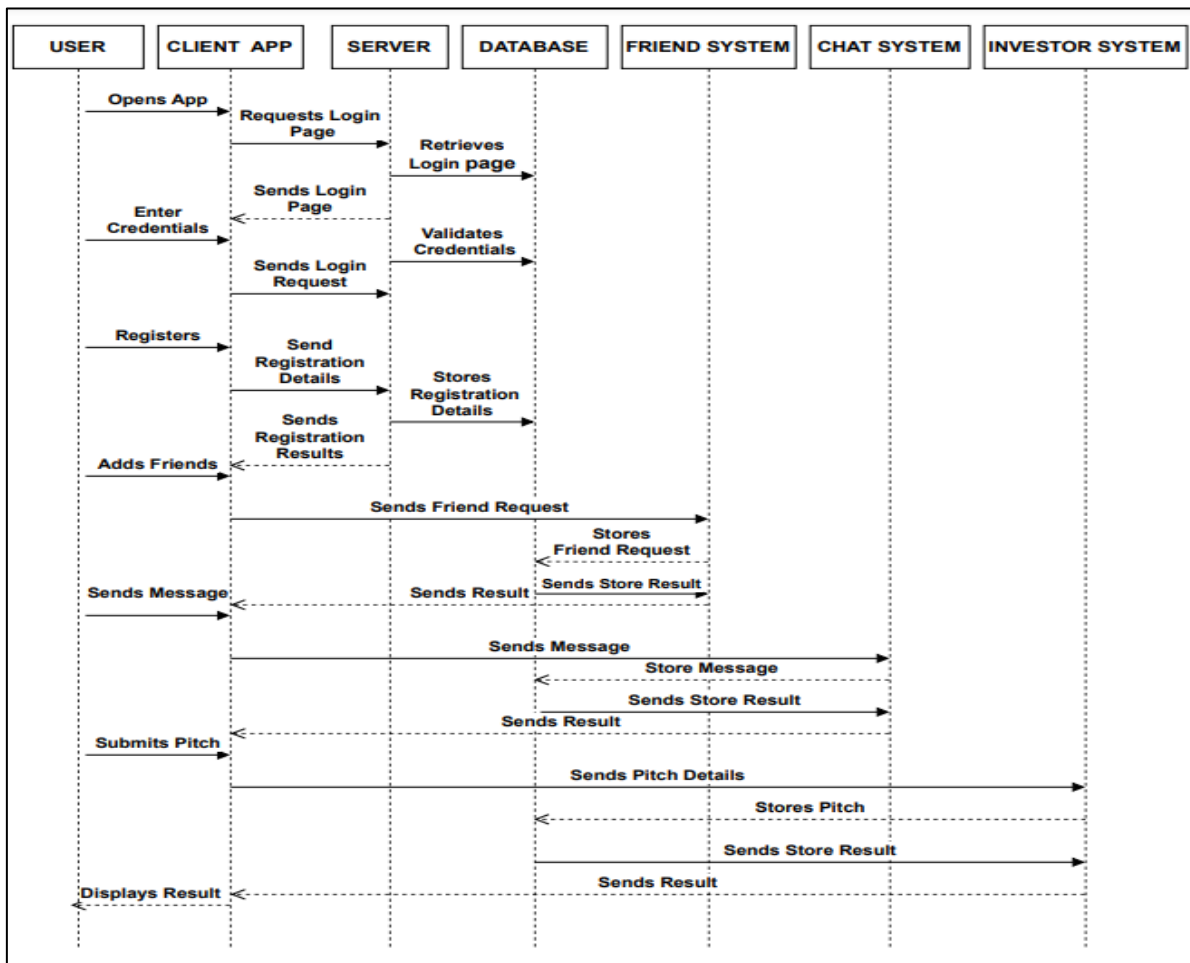


Fig. 3: Sequence Diagram

V. IMPLEMENTATION

The proposed method involves an innovative online interactive entrepreneurial club designed to facilitate seamless collaboration among entrepreneurs, investors, and other users. Users can participate in virtual pitching sessions where they present their business ideas to potential investors. These sessions can be scheduled and conducted using a user-friendly video application integrated into the platform. This platform employs an interactive interface that

integrates features, such as chatbots, to create a dynamic environment for networking.

A. Signup Page

Our signup page is a gateway for users, investors, and entrepreneurs to join the platform. With a user-friendly interface, the process is efficient and can be tailored to the selected user type. Whether a standard user, investor, or entrepreneur, individuals provide essential information and initiate personalized registration experiences. An image portraying the signup page is shown in Figure 4.

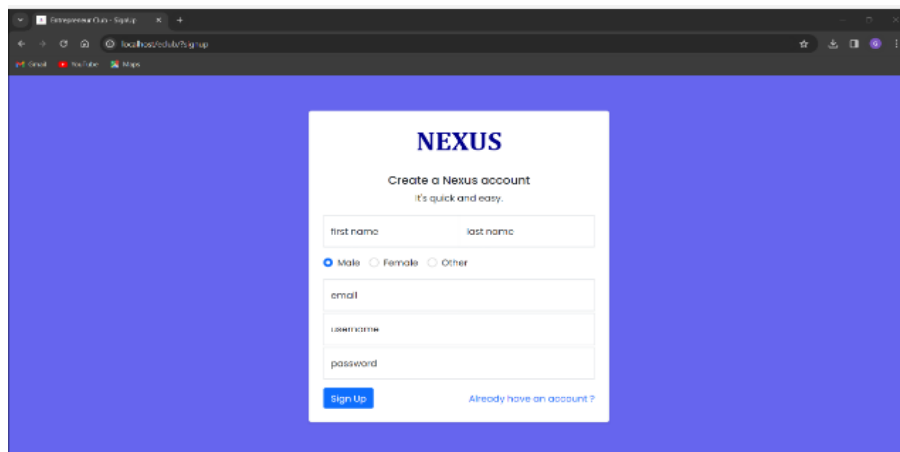


Fig. 4: Signup Page

B. Login Page

Our login page provides a secure entry point for registered users, which requires a username, email, and

password. With a simple and efficient design, it ensures data security and user authentication.

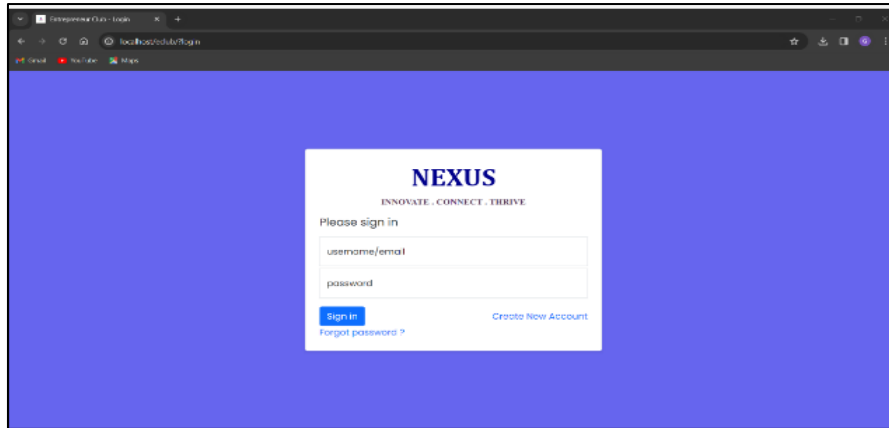


Fig. 5: Login Page

C. Pitching

Revolutionizing pitching, our platform offers virtual sessions through a user-friendly video application. Entrepreneurs present their ideas dynamically, optimizing

time and fostering global accessibility. Constructive feedback enhances pitch quality and contributes to future successes. This innovative format aims to engage, connect, and secure investments effectively.

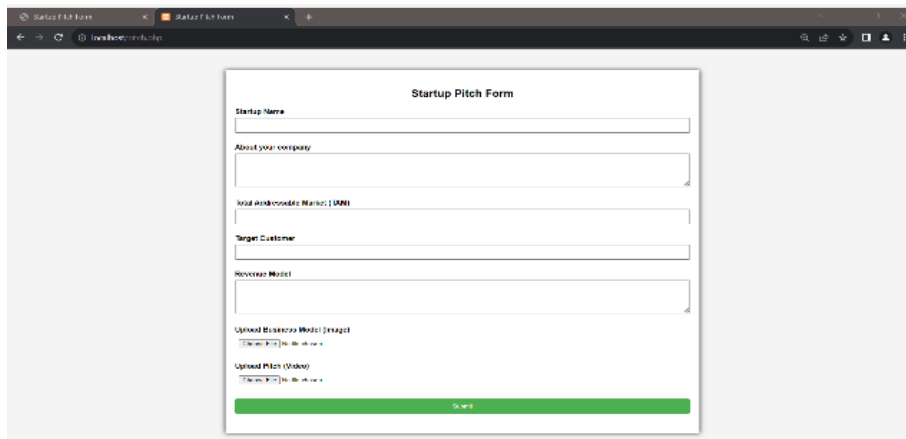


Fig. 6: Pitch Page

D. Home Page

The user homepage is a customized platform that allows users to view profiles, edit profiles, follow friends, interact with online friends, and post their intended content. This

platform also allows users to expand their business by collaborating with the investors who are keen in supporting entrepreneurs.

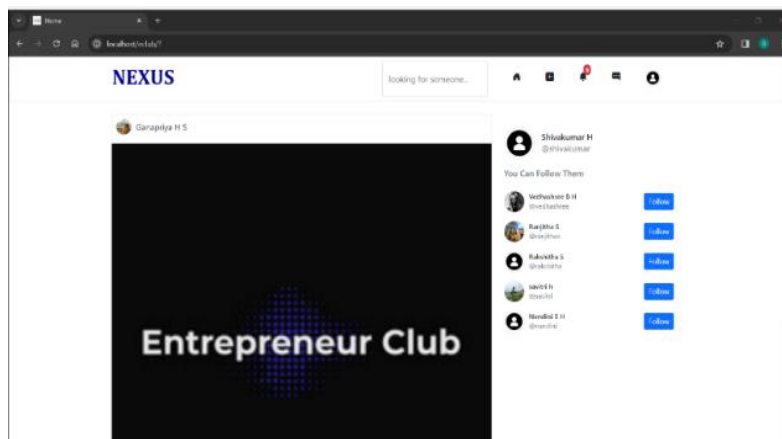


Fig. 7: Home Page

E. Suggestion and Post

The suggestion module allows users to connect to people within the network to establish engagement between users in the network. The post page provides users with a platform to create, publish, and manage content. Users can customize

their posts with media, categorize them for better organization, and edit them as needed. They also have the capability to engage with comments, monitor post-analytics, and assess the overall performance of their content.

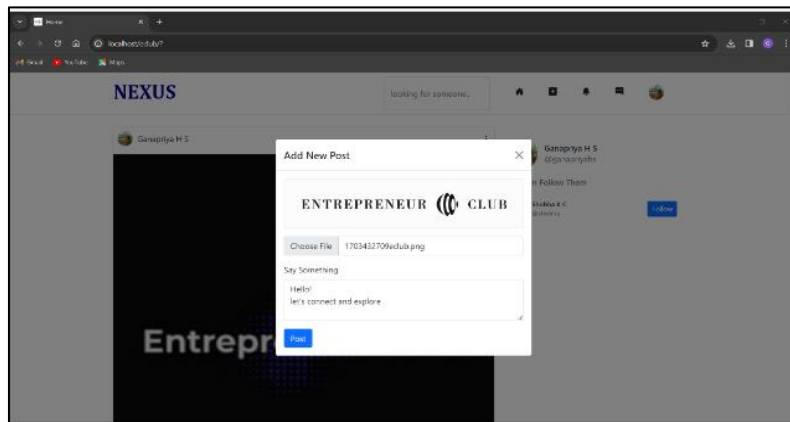


Fig. 8: Post Page

F. Implementation of Machine Learning

K-clustering technique is applied to categorize similar domains into clusters. Initially, textual data undergoes a conversion process, transforming it into numeric representations. This numeric representation allows the algorithm to operate effectively in an unsupervised manner, identifying patterns and grouping domains with shared characteristics. The unsupervised approach enables the organization of diverse textual data into meaningful clusters,

facilitating subsequent analysis based on the numeric features derived from the original text.

Random Forest Regressor is a supervised model tasked with ranking users within their assigned domains. Considering factors like revenue, profit, growth, and business status, it predicts the likelihood of investor funding. Using a collection of decision trees, this model captures complex data relationships, providing an effective tool for assessing and prioritizing users based on their investment potential.

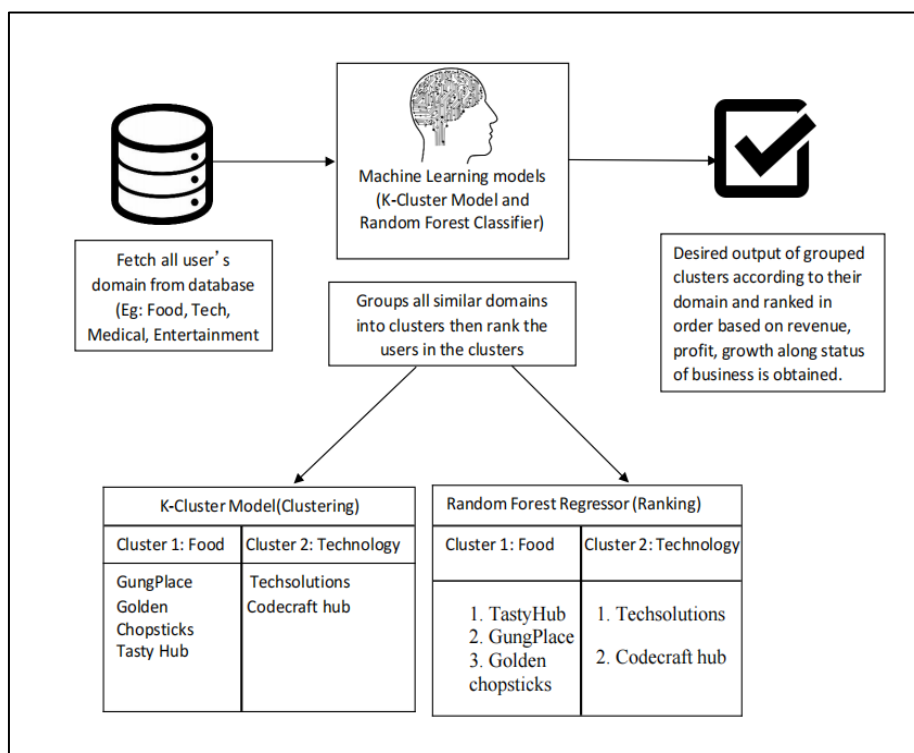


Fig. 9: Implementation of Machine Learning

G. Investor Panel

An investor panel is a dedicated section or dashboard within an investment platform or website designed specifically for investors. This panel allows investors to view and manage their investment portfolios, track

performance metrics, and communicate with other users or financial professionals. The panel aims to provide a comprehensive overview and tools necessary for investors to make informed decisions and manage their investment activities efficiently.

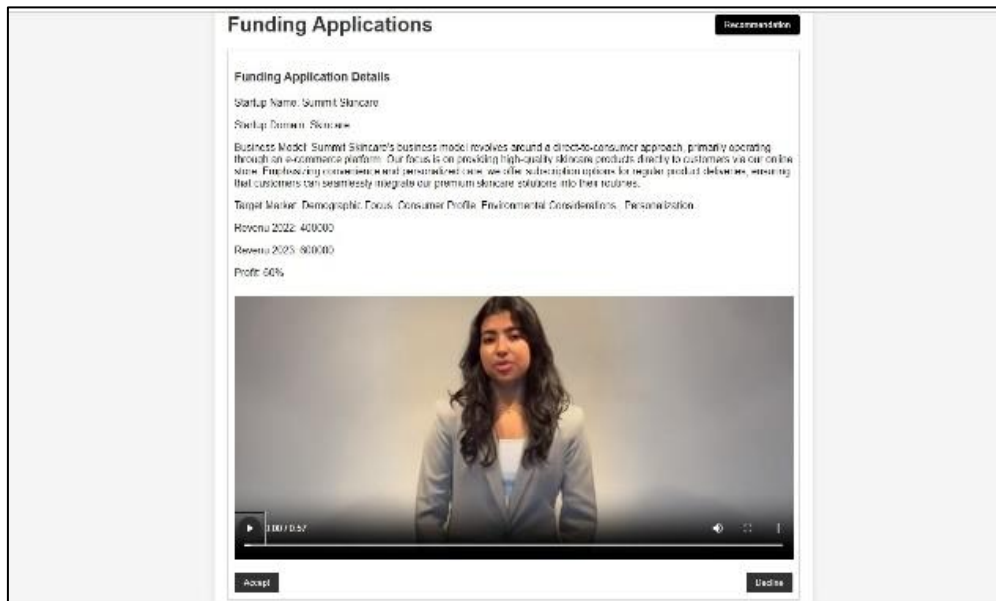
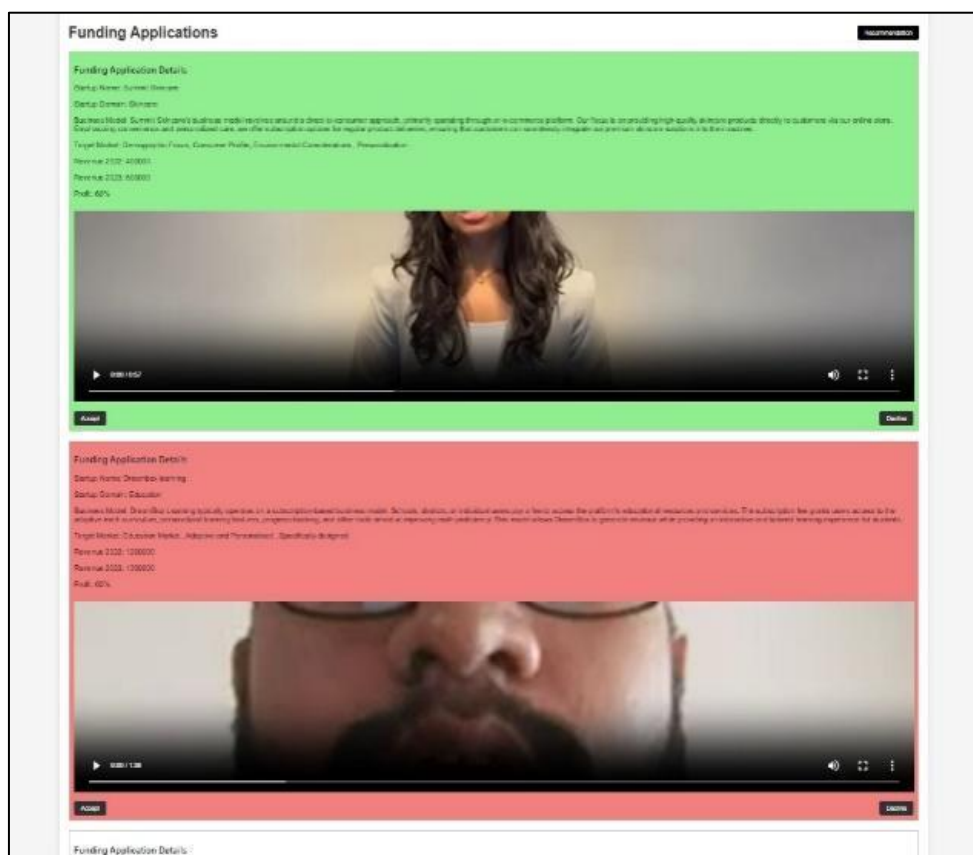


Fig. 10: Investor Panel

H. Fund Application Results

- Applications that have been approved are accentuated with a green highlight.
- Declined applications are indicated with a red marker.
- Applications that are pending review or a decision maintain the default white color.



VI. EXPERIMENTAL RESULT

Our user-friendly platform, where you can effortlessly edit your profile, connect with fellow entrepreneurs, and stay updated with real-time notifications.

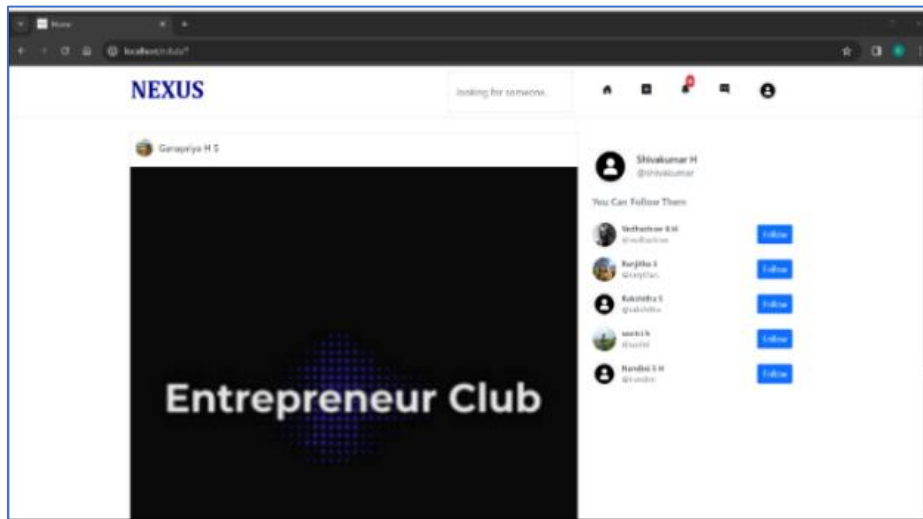


Fig. 11: Home Page

Embark on the journey of realization by clicking the Results button. This feature takes you to a secure login form,

where investors and entrepreneurs can enter their credentials to gain exclusive access to investment results.

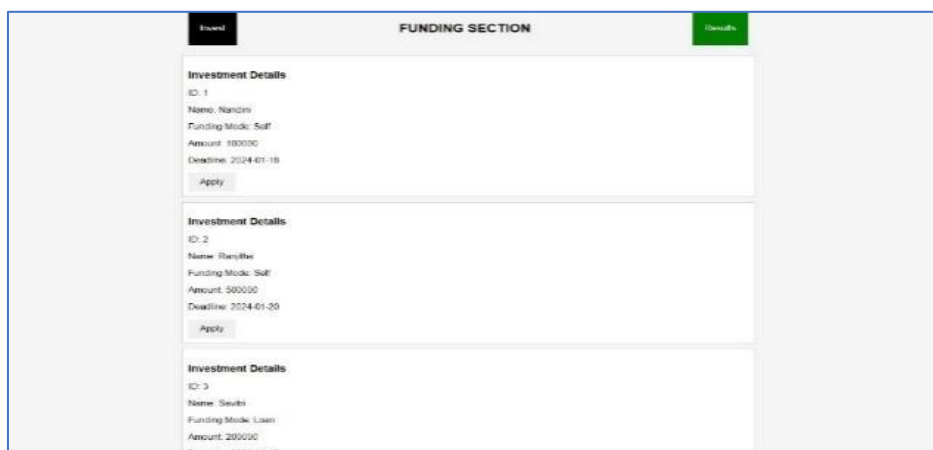


Fig. 12: Funding Section

Our investment recommendation system relies on a sophisticated strategy, combining the K-Clustering model and the Random Forest Regressor.

Investment Recommendations by ML

Cluster	ClusterName	StartupName	StartupSector	Revenue2021	Revenue2022	Profit	ProjectRevenue
0	1	B	Food	80000	120000	15	115000
0	2	D	Food	70000	100000	10	105000
1	1	C	Tech	120000	180000	24	169000
1	2	A	Tech	100000	150000	20	147000
1	3	E	Tech	90000	130000	18	138000

Fig. 13: ML Recommendation

VII. CONCLUSION

The Entrepreneurs Interactive Club, as presented in this study, represents our initiative to address the challenges faced by entrepreneurs in accessing funding and fostering collaboration. By providing accessible funding avenues, fostering collaboration, and enhancing connectivity, the proposed platform offers entrepreneurs a multifaceted solution. The utilization of advanced smartphone features ensures a user-friendly experience, streamlining networking, and collaboration challenges. As the platform gains traction and user engagement, the potential to revolutionize how entrepreneurs connect and thrive in the dynamic business landscape becomes evident. Our goal was to use technology to support entrepreneurs.

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