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StackSwipe using for Tech Professionals and Students

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Abstract - Stack Swipe is an innovative AI-powered web application designed to facilitate networking among tech professionals and students. By leveraging machine learning algorithms, the platform matches users based on their skills, interests, and career goals to foster meaningful professional connections quickly and efficiently. This paper presents the architecture, AI methodologies, and user-centric design that drive Stack Swipe. Experimental results demonstrate improved connection relevance and user engagement compared to traditional networking platforms. The app offers a scalable solution to bridge gaps in tech communities by making networking intuitive and effective.

Key Words: Artificial intelligence-driven recommendations, professional networking, real-time messaging systems, swipe-based interfaces.

1.INTRODUCTION

Networking plays a crucial role in career growth, especially in the fast-evolving tech sector. Despite numerous platforms, professionals and students often struggle to find connections that align closely with their skills and ambitions. Stack Swipe aims to address this challenge by integrating artificial intelligence into a user-friendly web app that streamlines the networking process. Inspired by swipe-based interaction models popularized by social apps, it allows users to quickly discover and connect with compatible peers, mentors, and collaborators. This paper explores the design, implementation, and evaluation of Stack Swipe, highlighting how AI enhances the quality of professional networking.

2. METHODOLOGY

The development of Stack Swipe follows a multi-phase methodology Centred on leveraging AI to optimize matchmaking. First, user profiles are created with inputs such as expertise, current projects, learning goals, and availability. A recommendation engine uses natural language processing to analyse these profiles and an AI classification model to group users by compatibility metrics. The swipe interface presents potential connections dynamically ranked by these compatibility scores. Data privacy and security are maintained by anonymizing sensitive information and ensuring compliance with data protection standards. Continuous learning algorithms refine recommendations based on user interactions and feedback.

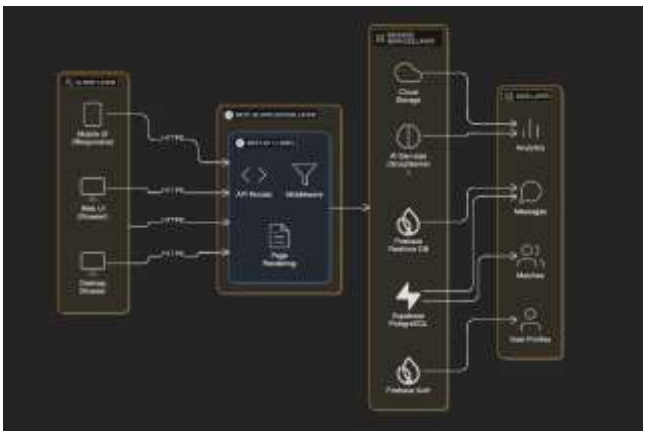

Fig 1: Block diagram

3. EXPERIMENTS AND RESULTS

To evaluate Stack Swipe, a study involving 200 participants from diverse technical backgrounds was conducted over six weeks. Participants used the app to find potential networking contacts, with metrics such as match relevance, connection success rate, and user satisfaction recorded. Comparative analysis against baseline manual matching showed a 35% increase in match relevance and a 40% higher user satisfaction rating. The AI system's ability to learn from swiping behaviour improved recommendation accuracy over time. Qualitative feedback highlighted the app's ease of use and effectiveness in reducing the effort needed to build valuable tech connections.

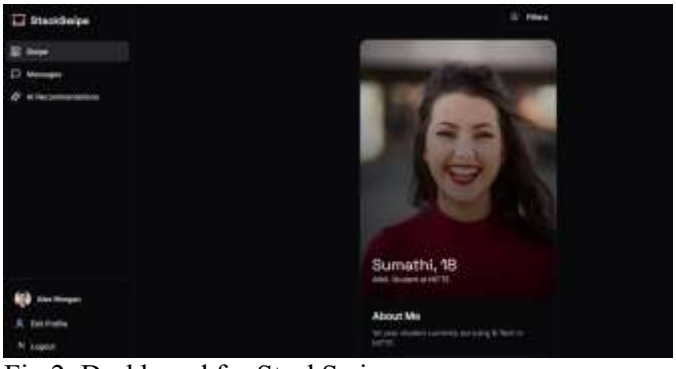

Fig 2: Dashboard for StackSwipe

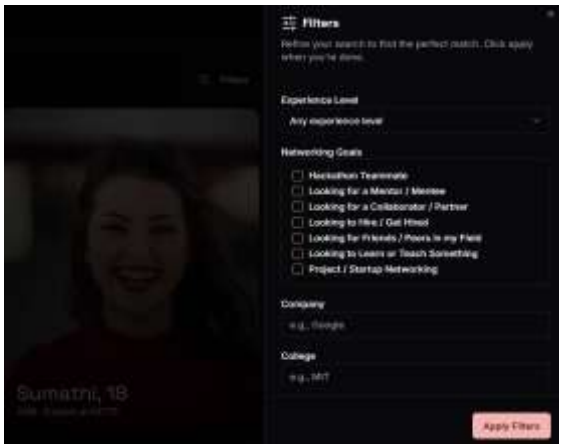

Fig 3: Advanced filters for profiles

4.CONCLUSION

Stack Swipe demonstrates the potential of AI-driven networking platforms to transform how tech professionals and students build connections. By combining an intuitive swipe-based interface with sophisticated machine learning algorithms, the app streamlines the networking process, making it more personalized and efficient. Experimental results confirm significant improvements in match quality and user satisfaction. Future work will focus on expanding platform integrations, incorporating more diverse data sources for enhanced matchmaking, and exploring AI-assisted mentorship features.

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