

StockPro: A Layered FinTech SaaS for Professional Stock Research and Portfolio Management

Nalage Kartikraj Bibhishan¹, Farate Vaishnavi Vishnu², Jawale Vaishnavi Bhanudas³,
Giramkar Sneha Hari⁴, Dr. A. P. Suryavanshi⁵

Final Year Student, Department of Computer Engineering^{1,2,3,4}

Project Coordinator & Head of Department, Department of Computer Engineering⁵

Hon. Shri Babanrao Pachpute Vichardhara Trust's, GOI Faculty of Engineering Kashti, Ahmednagar, India

Abstract: Retail investors in the Indian stock market often face significant losses due to a lack of structured, verified research and reliance on unverified “tips” circulated on social media. Existing platforms are either too expensive for beginners or lack accountability in their recommendations. This paper introduces StockPro, a comprehensive FinTech SaaS platform designed to democratize access to professional-grade stock research. Unlike traditional dashboards, StockPro utilizes a Layered Architecture to separate business logic from presentation, ensuring scalability and security. The system integrates real-time market data, a curated “Research Call” engine with lifecycle tracking, and a robust portfolio management system. Key technical contributions include a custom Role-Based Access Control (RBAC) system for analysts and users, and an automated Performance Tracking Module that verifies stock calls against live market data without human intervention.

Keywords: FinTech, SaaS, Stock Research, Django, Layered Architecture, RBAC, Automated Verification, Portfolio Management, Real-Time Market Data

