

VINAY MAHALE

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SUMMARY

Driven and analytical engineering student with a growing passion for finance, actively seeking internship opportunities to bridge technical problem-solving skills with financial acumen. Eager to explore real-world finance through hands-on experience in areas like financial analysis, investment strategy, and business planning. Equipped with a strong foundation in data analysis, critical thinking, and quantitative reasoning, and excited to apply these strengths in dynamic finance environments. Looking to learn from industry professionals, contribute to impactful projects, and build a solid foundation for a future career in business and finance.

CERTIFICATES

Excel/VBA for Creative Problem Solving, Part 1-3	UOCB
Data Ecosystem	Tableau
Databases and SQL for Data Science with Python	IBM
Data Visualization and Dashboards with Excel and Cognos	IBM
Excel Basics for Data Analysis	IBM
Fundamentals of NestJS	Board Infinity
Machine Learning with Python	IBM
Introduction to Data Analytics for Business	UOCB

EXPERIENCE

Mumbai Railway Local EMU Operations	January 2025 – Feburyary 2025
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IT Intern

- Supported the **digital infrastructure** and operational IT systems of Electric Multiple Unit (EMU) services in the local railway network.
- Monitored system diagnostics and managed operational and scheduling data to ensure smooth train performance.
- Assisted in the implementation of smart signaling and passenger information systems to improve safety and user experience.
- Facilitated communication between onboard systems and central control centers, contributing to real-time decision-making and operational efficiency.

KJSCE Illuminati	April 2024 – Present
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Chief

- Led the college literary team, **spearheading the planning and successful execution of multiple high-profile literary events**, fostering engagement across the student body.
- Delegated tasks effectively, ensuring optimal collaboration among team members and **streamlined workflows for efficient project completion**.
- Developed innovative event concepts, **enhancing participation by 20% compared to previous years**, while maintaining high-quality standards.
- Represented the literary team in institutional forums, **securing resources and sponsorships to expand event outreach and impact**.

PROJECTS

News Bias Detection System

- Engineered a sophisticated **data analytics pipeline** for identifying and quantifying bias patterns across diverse news sources, enabling researchers to **track media sentiment trends** through an intuitive visualization dashboard.
- Designed and implemented **deep learning algorithms using TensorFlow** that successfully classified political leaning and subjective language with **85% accuracy** across multiple news categories.
- Developed **interactive data visualizations** that transformed complex bias metrics into actionable insights, utilizing **Python data analysis libraries** and **JavaScript visualization frameworks** backed by a **MongoDB database** for efficient pattern recognition.

Personal Finance Dashboard

- Developed a comprehensive **finance management system** allowing users to **track income, expenses, and savings** through an intuitive dashboard.
- Implemented **real-time financial insights** with dynamic visualizations for **spending patterns, budget allocation, and savings goals**.
- Built using **Laravel (PHP)** for backend operations, **MySQL** for structured financial data storage, **JavaScript** for interactive components, and **Tailwind** for a responsive user interface.
- Designed and integrated a custom **data extraction feature** allowing users to export their transactions to Excel spreadsheets with a single click, facilitating deeper offline statistical analysis.

Hospital Management System

- Designed and implemented** a robust hospital management platform with distinct **User and Admin modules** for streamlined appointment bookings and operational management.
- Leveraged **React** for dynamic user interfaces, **JavaScript** for client-side functionality, **Python** for backend logic, and **MongoDB** for database management.
- Enhanced operational efficiency** by ensuring seamless handling of patient and hospital data.

EDUCATION

K.J Somaiya College of Engineering

Nov 2022 – June 2026

Bachelors of Technology in Information Technology

Honors in Artificial Intelligence

IIT Madras

June 2023 - June 2026

Bachelor of Science in Data Science and Applications

SKILLS

Languages	Python, C, SQL, React, Node.js, FastAPI
Databases	PostgreSQL, MySQL, MongoDB
Web Development	HTML, CSS, React, PHP, NestJS
Other Skills	PowerBI, RapidMiner, Pandas, Numpy, VBA, TensorFlow, IBM Cogn
Soft Skills	Effective Communication, Presentation Skills, Leadership, Team Skills, Critical Thinking and Brainstorming

