Kashinath Kesale

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Education

Wadia College of Engineering, Pune — Pune, India
Bachelor of Engineering – Electronics and Telecommunication Engineering — 2022 – 2026

Experience

Data Science Intern   Sofcon India Pvt. Ltd.   Dec 2024 – Feb 2025

- Developed **machine learning models** for **predictive analytics**, specializing in **regression techniques**.
- Worked with **Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook**.

Projects

RetailEdge – Retail Management Platform (*React.js, Node.js, Express.js, MongoDB*) ⬡ GitHub   Jun 2025

- Designed and built a scalable full-stack retail management system with **secure authentication**, **role-based access control** (Admin, Cashier, Viewer), and **real-time inventory tracking**.
- Developed **RESTful APIs** with JWT authentication and efficient state management; implemented token refresh, **sales processing**, and **PDF receipt generation**.
- Engineered an interactive **React.js dashboard** with Tailwind CSS and Chart.js for advanced analytics (**revenue**, **sales trends**, **top products**).
- Deployed production-ready platform on **Vercel** and **Render** with optimized API performance and responsive UI.

Log Monitoring System (*Docker, Grafana, Loki, Promtail*) ⬡ GitHub   Mar 2025

- Dockerized logging pipeline using **Grafana Stack (Loki + Promtail)** for JSON log ingestion, parsing, and visualization.
- Implemented filtering by **severity_text**, **instrumentation_scope**, and **observed_timestamp_rfc3339**.
- Automated deployment with **Docker Compose** and integrated **CI/CD via GitHub Actions**.

Flight Price Prediction Model (*Python, Machine Learning*) ⬡ GitHub   Jan 2025

- Developed a **Flask-based web application** for **real-time flight price prediction**, integrating a trained ML model with robust **data preprocessing**, **feature engineering**, and dynamic inputs like **airline**, **route**, **stops**, and **duration**.
- Implemented **Random Forest Regressor**, achieving $R^2 = 0.9854$ on a **300,000+ record dataset**.

Technical Skills

Programming Languages: Java, JavaScript, Python
Frontend & Backend Development: React.js, Node.js, Express.js, MongoDB, HTML, CSS, REST APIs
Databases: MongoDB, MySQL, SQL
Tools & Platforms: Git, GitHub, Docker, Postman, VS Code, GitHub Actions, CI/CD
Computer Science Fundamentals: Data Structures & Algorithms, OOP, DBMS, OS, Computer Networks

Certifications

Networking Basics - Cisco Networking Academy
Introduction to MongoDB (for Students) - MongoDB University