TANUSH BIDKAR

tanush.bidkar@gmail.com | LinkedIn | GitHub | Leetcode | +918355871519

EDUCATION

Thadomal Shahani Engineering College (TSEC) – University of Mumbai Mumbai, India
Bachelor of Engineering in Artificial Intelligence and Data Science (CGPA: 9.00) 2022 – 2026
DG Ruparel College, Mumbai
12th Board (HSC) – 86.17 %

SKILLS

Languages : Python, JavaScript, C, C++, Java   Web: React.js, Next.js, Express.js(Node.js),Flask, Spring Boot
Databases : PostgreSQL, MySQL, SQLite, MongoDB   Tools : Git, Github, Docker, Jenkins, Postman
Libraries : Pandas, NumPy, PyTorch, NLTK   Platforms : AWS, Google Cloud, Vercel, Render, Linux

WORK EXPERIENCE

➤ **AI and Automation Intern, Cushman & Wakefield Pvt. Ltd** June 2025 - Ongoing
- Created a web page using JavaScript and developed **automation scripts in Python and Excel Macros** for logic formula checks, which highlighted errors and reduced manual data validation work by about 2 hours every day.
- Automated the **linking** and combining of multiple datasheets so that data could flow smoothly across teams with very little manual work.
- Built a **machine learning–based error detection system** by training on many Excel files to set dynamic thresholds (limits). New data was then tested against these thresholds, which improved accuracy and reduced review workload by 40%
- Improved workflows by using Excel Macros along with **Python libraries (pandas, openpyxl),** boosting data processing speed by up to **75%** and making data checks more reliable.
- Worked with different teams to make sure data was accurate and all automated processes ran smoothly, helping in audits and better coordination.

➤ **Marketing Head, Computer Society of India TSEC** June 2024 - Feb 2025
- Organizing **Hackathons and Cultural Fests**, building **financial partnerships** and promoting seamless innovation execution.

PROJECTS

TRAYA ↗ | Centralized Waste Management Platform
Technologies used: **Next.JS, CSS, Javascript, Node.js, Express.js, MongoDB, Flask(Python), Pytorch, Docker(Deployment).**
• Built an AI-driven IoT platform using Raspberry Pi GPIO Zero for real-time waste tracking and disposal monitoring, improving response efficiency. Integrated reward-based recycling participation to boost user engagement.
Implemented AI-powered multimodal waste segregation, enabling real-time tracking of waste hotspots and connecting users, collectors, and recyclers in a single hub which automated 85%+ manual tracking efforts

IntelliTrade ↗ | Multi-Agent System for Algorithmic Trading with Adaptive Strategies
Technologies used: **Python, Generative AI, Reinforcement Learning, RAG, Flask, SQL, Docker, REST APIs,**
• Developed a multi-agent system where specialized agents executed diverse trading strategies using Python, Generative AI, Reinforcement Learning and RAG (Retrieval-Augmented Generation). Integrated real-time stock market APIs (Alpha Vantage), historical data analysis and portfolio optimization techniques to adapt strategies dynamically under market volatility. Designed scalable architecture with REST APIs, distributed systems, and database integration for efficient decision-making and collaboration.

OfficeOwl ↗ | Security-Focused Workflow Management Platform
Technologies used: **React.js**, **Firebase**, **AES encryption**, **Firestore**, **RESTful API.**
• Built a secure role-based leave and attendance system with PDF processing and dashboards; designed REST APIs with access control and encrypted sessions; integrated 2FA, data masking, and encrypted reporting for compliance.

CERTIFICATIONS & ACHIEVEMENTS

- **Mastery in React.js and JavaScript – Certified.** Certificate
- **1st Place** – NEWBIETHON Hackathon by IETE-TSEC. Certificate
- **Top 13** – TSEC Rubix'24 Hackathon (National level) by CSI. Certificate
- **Finalist** –RGIT CodeAstra Hackathon by (ABIT- **Association of Bidding Information Technocrates)**Certificate
- **Top 13** – TSEC Minithon'23 (Front-end) by CSI. Certificate
- **Top 10** – TSEC Need For Code'23 Hackathon by Code-Tantra. Certificate