Siddhant Mallik

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Education

Vellore Institute of Technology, B.Tech in Electrical and Electronics Engineering *Sept 2022 – Present*
CGPA: 8.25/10 (till 6th semester)
Relevant Coursework: Data Structures, Algorithms, Embedded Systems, Control Systems, Statistics for Engineers, Operations Management

Prabhu Dayal Public School, Delhi
Class X: 86%   —   Class XII: 81%

Experience

VLSI Internship – VIT Systems Lab *May 2025 – July 2025*
- Assisted in RTL design and simulation workflows using Verilog and ModelSim.
- Contributed to low-power circuit design and validation through automated test benches.
- Documented debugging results and process improvements for reproducible workflows.

Operations Coordinator – TechnoVIT 2023 *Aug 2023 – Oct 2023*
- Managed cross-functional operations for a 4000+ participant technical fest, ensuring timely scheduling and delivery.
- Designed real-time tracking sheets improving data visibility by 40%.
- Streamlined communication between technical, logistics, and sponsorship teams for faster execution.

Selected Projects

ODESA – Online Voice-Based AI Interview Platform
Next.js, React, Socket.io, Tailwind CSS, OpenAI API, Node.js
- Built an intelligent interview simulator enabling voice-based Q&A, AI evaluation, and live feedback for candidates.
- Implemented real-time speech recognition and AI-driven scoring to assess clarity, confidence, and technical accuracy.
- Optimized backend APIs for 30% faster response time using asynchronous event handling.

College Placement Tracker – AI Insights Dashboard
Streamlit, Python, Web Scraping, Pandas, OpenAI API
- Scraped and analyzed placement data to generate insights on recruiters, roles, and compensation patterns.
- Integrated AI layer to summarize hiring trends, predict upcoming company visits, and auto-generate reports.
- Designed visual dashboards for transparent placement data and student progress tracking.

AI-Powered Stock Market Dashboard
React, Flask, Python, yFinance API, LSTM, Pandas
- Developed a real-time financial data visualization tool with predictive trend modeling.
- Applied deep learning (LSTM) for stock movement forecasting and integrated sentiment-based insights.
- Enabled KPI tracking for user portfolios — improving data readability by 50%.

Skills

Programming: Python, C, Java, JavaScript, HTML, CSS	**Electrical Tools:** MATLAB, LTSpice, AutoCAD Electrical
Frameworks & Tools: React, Next.js, Tailwind CSS, Node.js, Streamlit, Flask	**Core Competencies:** AI Integration, Problem Solving, System Design, Process Optimization
Data & Analytics: SQL, Pandas, Data Visualization	**Soft Skills:** Leadership, Ownership, Bias for Action, Cross-functional Collaboration

Leadership & Initiatives

Hackathon & Technical Events Coordinator *2022 – 2024*
- Mentored 5+ hackathon teams on technical documentation, project planning, and final pitch delivery.
- Oversaw logistics, evaluation, and post-event analytics for inter-departmental technical contests.

Achievements

- Published **2 IEEE Conference Papers** (IoT, Renewable Energy).
- Solved **300+ LeetCode problems**, improving analytical and data-structure proficiency.
- Hackathon Finalist – IoT-based energy optimization project (2024).