Neelay Joshi

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Education

Veermata Jijabai Technological Institute, Mumbai — **Aug. 2025 – May 2028**
B.Tech in Computer Engineering — CGPA: ***7.24*** — *Matunga, Maharashtra*

Bhausaheb Vartak Polytechnic, Vasai — **Aug. 2022 – May 2025**
Diploma in Computer Engineering — ***96.57%*** *| Department Topper* — *Vasai, Maharashtra*

Relevant Coursework

- Data Structures & Algorithms
- Operating Systems
- Database Management
- Software Development
- Computer Networks
- AI & Machine Learning

Work Experience

Alvin IT Solutions — **May 2024 – July 2024**
AI/ML Intern — *Internship Certificate*

- Built a **TF-IDF + Logistic Regression** spam classifier over **10K+** emails, reaching **92% accuracy**, and a sentiment-analysis model on **4K** labeled tweets, running the full pipeline from **data cleaning** through **evaluation**.
- Iterated on **feature extraction** and **model tuning** using Pandas, NumPy, and scikit-learn, comparing accuracy and precision trade-offs across versions.

Projects

AnnadataSaathi | *Python, XGBoost, TensorFlow, FastAPI, React, Sentinel-2, Langchain, GCP, Supabase* — **Jan 2026**

- Built and deployed a full-stack precision-agriculture platform using **React, FastAPI, Supabase Postgres, Vercel, and Render**, integrating REST APIs with a **Sentinel-2 satellite data pipeline** for field-level crop monitoring.
- Developed AI-driven crop intelligence with a **ResNet + EfficientNet ensemble** for disease detection across **38 classes**, an **NDVI-based multispectral pipeline** for detecting field stress, and an **XGBoost model** for crop-yield prediction.

Zenith - Agentic AI Code Editor | *Python, Langchain, LangGraph, Electron, ChromaDB* — **Oct 2025**

- Built a **multi-agent AI coding pipeline** using LangGraph with planner, coder, tester, and reviewer agents to autonomously plan, implement, and validate code changes across project files from natural-language instructions.
- Implemented **codebase RAG with ChromaDB**, GitHub-integrated version control, and real-time code visualization, enabling agents to retrieve relevant code and users to track, inspect, and understand changes interactively.

MedTrack | *Python, TensorFlow, Scikit-learn, Flask, PostgreSQL* — **May 2024**

- Trained a CNN for X-ray-based diagnosis, reaching **81% accuracy**, and classical ML models for symptom-based detection, averaging **85–88%** accuracy across multiple disease classes, served through a Flask REST backend.
- Integrated a local **Qwen 2.5 3B** model for treatment recommendations and built a PostgreSQL-backed appointment-booking flow with authentication and reminders.

Technical Skills

Languages: Python, C++, Java, JavaScript, SQL, HTML

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch

Frameworks: Flask, Spring Boot, LangChain, LangGraph, OpenCV

Databases: PostgreSQL, Supabase, Firebase

Systems & Tools: Linux/Unix, Git/GitHub, REST APIs, GCP, Vercel, Render, VS Code, Google Colab

Achievements

- Solved **500+** data structures and algorithms problems across LeetCode, CodeChef, Codeforces, and GeeksforGeeks.
- Won **5** national and state level hackathons, including HackWithMumbai 2.0 and more.
- Won state level technical paper presentation and other competitions.
- Earned Hacktoberfest Super Contributor status with **6** merged pull requests to public repositories.

Leadership / Extracurricular

GDG VJTI — Google Developer Group, Secretary — **Jun 2026 – Present**

Digital VJTI — VJTI's Official Digital Infrastructure Committee

Secretary — **Jun 2026 – Present**

Technical Team Member — **Jan 2026 – Jun 2026**

- Co-built and operated the software handling **50+ teams** for the Black Box Debuggathon, working cross-functionally with student engineering teams from design through live operation.

Community of Coders and Project X — Conducted technical events and workshops at VJTI