# Suchet Patil

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## EDUCATION

- **Vellore Institute of Technology** — Vellore, India
  *Bachelor of Technology - Information Technology; CGPA: 8.71* — Sep 2022 - Present

- **Alpine Public School** — Bengaluru, India
  *XII (CBSE); Percentage: 86.4%* — Jul 2022

## SKILLS SUMMARY

- **Languages**: C/C++, Python, Java, HTML, CSS, JavaScript, SQL, Bash
- **Tools**: Docker, GIT, Github, PostgreSQL, MySQL, MongoDB, Postman, Wireshark, CPT, JWT, Vercel
- **Libraries/Frameworks**: ReactJS, NodeJS, Linux, Pandas, Numpy, Scikit-learn, PyTorch, seaborn, matplotlib
- **Coursework**: Operating Systems, DSA, DBMS, Machine Learning, Web Technology, OOP, Computer Networks

## EXPERIENCE

- **ZeroZeta** — Bengaluru
  *Machine Learning Intern* — May 2025– Jul 2025
  - **EDA & Feature Engineering**: Synthesized **3 key supply chain datasets**(Orders, Vendors, Route) using Python and created **domain-specific** features like Order Pressure, Transit Risk, threshold flags to capture critical risk patterns
  - **Predictive Modeling & Validation**: Trained and evaluated **4 classification models** (Random Forest, XGBoost, SVM, Logistic Regression) using **SMOTE** to handle class imbalance
  - **Supply Chain Forecasting Platform**: Engineered and deployed a prediction platform using Python and Streamlit that improved forecast accuracy by **12%**. Validated model performance with ROC-AUC and confusion matrix analysis to provide real-time risk assessment to business stakeholders
  - **Interactive UI Deployment**: Designed an end-to-end interactive **Streamlit** interface for **quantity shortfall** assessment, enabling non-technical stakeholders to simulate and assess supply chain risk scenarios

- **Vigyanlabs Innovations Private Limited** — Mysore
  *Software Engineer Intern* — Jun 2024– Jul 2024
  - **Database Monitoring Dashboard**: Built a MongoDB monitoring dashboard using **Prometheus** and Grafana to track vital **metrics** (memory, I/O, query performance), reducing incident response time by **30%**
  - **Infrastructure Automation**: Engineered and tested robust **Bash scripts** to automate key operational tasks, including log cleanups, file management, and backups, reducing manual workload by over **2** hours per week
  - **Virtual Environment Management**: Created and managed multi-OS environments for development and experimentation using **VirtualBox** and **Virt-Manager**, ensuring consistent and reproducible application behavior across different systems

## PROJECTS

- **AI-Powered Encrypted Network Traffic Analysis**: Developed a cybersecurity classifier integrating a **lightweight LLM** with a Random Forest model, delivering **90%** accuracy across **9** cyberattack categories, and surfacing actionable threat intelligence via Streamlit. *Tech: Python, pandas, LLMs (2025)*

- **Supply Chain Risk Assessment Platform**: Implemented an interactive Streamlit platform that features a conversational AI integrating a **Retrieval Augmented Generation** (RAG) interface with **LLaMA 3** to enable natural language querying of supply chain risk predictions. *Tech: Python, LangChain, Vector Databases (2025)*

- **AI-driven Collaborative Coding Platform**: Architected a sandboxed multi-user coding environment with **live synchronization** supporting **10+ languages** utilizing a REST API; platform handled **50** concurrent coding sessions with under **200ms** latency; Integrated with Gemini API to power intelligent tools. *Tech: TypeScript, React.js, Node.js, WebSockets, Firebase, REST APIs (2025)*

- **VIT Complaint Management System**: Launched a real-time complaint management system using React with Firebase in the backend supporting **10,000+** users, incorporating **Gemini API to slash admin review time by 40%** and enhanced issue tracking by **25%**. *Tech: JavaScript, React, NoSQL database, Data Visualization (2025)*

## CERTIFICATIONS & ACHIEVEMENTS

- AWS Certified Cloud Practitioner — View Credentials
- Python for Data Science and Machine Learning Bootcamp — View Credentials
- The Complete Full-Stack Web Development Bootcamp — View Credentials
- Competitive Programming: 190+ LeetCode Problems Solved — View Profile
- Positions of Responsibility: Core Committee Member of Leo Club