

# Suchet Patil

Portfolio: Suchet.vercel.app

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## EDUCATION

- Vellore Institute of Technology** Vellore, India  
Bachelor of Technology - Information Technology; CGPA: 8.71  
Sep 2022 - Present  
*Relevant Coursework:* Object Oriented Programming, Operating Systems, Data Structures and Algorithms, Machine Learning, Database Management Systems, Computer Networks, Web Technology
- Alpine Public School** Bengaluru, India  
XII (CBSE); Percentage: 86.4%  
Jul 2022




## SKILLS SUMMARY

- Languages:** C/C++, SQL, Python, Java, HTML, CSS, JavaScript, Bash
- Tools:** Github, Git, Docker, Postman, Wireshark, VirtualBox, Vercel, Jupyter
- Databases/Libraries/Frameworks:** MySQL, PostgreSQL, Linux, React.js, Pandas, Numpy, Scikit-learn, PyTorch, Seaborn

## EXPERIENCE

- ZeroZeta** Bengaluru  
Machine Learning Intern  
May 2025 – Jul 2025
  - Synthesized **3 key supply chain datasets** (order, vendor, route) in python using key-based **joins** to create a structured foundation for predictive modeling.
  - Performed **EDA** and **engineered domain-specific features** like order Pressure, transit Risk and threshold flags, applying **encoding, standardization, PCA/FA** to capture risk patterns, enhance model accuracy.
  - Increased shortfall forecasting accuracy by **12% by training 4 different classification models** with **SMOTE**, validating performance through **ROC-AUC and confusion matrix** analysis, and launched the forecast on streamlit enabling non-technical buisness stakeholders to assess supply chain risk scenarios.
- Vigyanlabs Innovations Private Limited** Mysore  
Software Engineer Intern  
Jun 2024 – Jul 2024
  - Built a **MongoDB monitoring dashboard** using **Prometheus** and **Grafana** to track vital **metrics** (memory, I/O, query performance), reducing incident response time by **30%**.
  - Engineered and tested robust **Shell scripts** to automate the workflow for key operational tasks like **log cleanups, file management, and backups**, reducing manual workload by over **2 hours** per week.
  - 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

- Encrypted Traffic Analysis using LLMs** | Python, LLMs, Streamlit, Flask  Aug 2025
  - Developed a **cybersecurity** classifier combining a **lightweight LLM** with Random Forest, achieving **90%** accuracy across **9 attack categories**.
  - Devised embeddings from network metadata and applied **SMOTE** to boost recall on rare attacks by **30%**; Built a Streamlit-based interface for **real-time predictions** and **log downloads** enabling deployment and usability.
- AI-driven Collaborative Coding Platform** | React, Firebase, Node.js, Express.js, WebSockets  Aug 2025
  - Architected a sandboxed multi-user coding environment supporting **10+ languages**, utilizing a **REST API**, and enabling a Node.js backend with **WebSockets** to deliver **live synchronization with 200 ms** latency.
  - Utilized Firebase for **persistent sessions and authentication**; Integrated the **Gemini API** to build intelligent developer tools, improving code comprehension by **25%**.
- Supply Chain Risk Optimization** | Python, LangChain, Vector Database  Jul 2025
  - Integrated an advanced conversational AI using **LLAMA 3** and a **Retrieval-Augmented Generation (RAG)** system with **FAISS**, enabling natural language **querying** of model predictions and supply chain insights.
  - Designed an end-to-end shortfall risk assessment tool by engineering **10+** features, training classification models, and deploying the system in an interactive Streamlit UI with a **4-stage pipeline** for dynamic forecasting.

## CERTIFICATIONS & ACHIEVEMENTS

- Competitive Programming: 230+ LeetCode Problems Solved — [View Profile](#)
- 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](#)
- Positions of Responsibilities: Core Committee member of Leo Club