Suchet Patil

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Education

Vellore Institute of Technology, Vellore **September 2022 – July 2026**

Bachelor of Technology in Information Technology *Cumulative GPA: 8.71*

Alpine Public School, Bengaluru **July 2022 – June 2022**

High School / CBSE 12th Board *Percentage: 86.4*

Relevant Coursework

- Data Structures
- Web Technologies
- Computer Networks
- Machine Learning
- Database Management
- Operating Systems
- Computer Architecture
- OOP

Experience

ZeroZeta **May 2025 – July 2025**

Intern *Bengaluru, Karnataka*

- Synthesized and integrated 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 and Transit_Risk, applying encoding, standardization, PCA/FA to capture risk patterns and enhance model accuracy.
- Trained 4 classification models (Random Forest, XGBoost, SVM, Logistic Regression) for shortfall prediction using SMOTE, improving accuracy by 12% and validating performance through ROC-AUC and confusion matrix analysis.
- Built and deployed a Streamlit interface supporting two core forecasts for predicting—quantity shortfall and delivery delay to simulate and assess supply chain risk scenarios.

Vigyanlabs Innovations Private Limited **June 2024 – July 2024**

Project Intern *Mysore, Karnataka*

- Created and managed Virtual machines using VirtualBox and Virt-Manager to simulate multi-OS environments for development and experimentation.
- Built a MongoDB monitoring dashboard using Prometheus and Grafana to track memory, queries, and I/O, improving observability.
- Automated routine tasks using Bash and Shell scripting, including log cleanup, file management, and basic backup operations.

Projects

Encrypted traffic attack classifier using LLMs | *Python, Hugging Face, Streamlit, Flask, Wireshark* **March 2025**

- Built an encrypted traffic classifier using a lightweight LLM and Random Forest model, achieving 70% accuracy across 9 network attack categories.
- Converted network protocol, IP, and port metadata into structured text for semantic embedding using the LLM.
- Applied SMOTE to balance class distribution, boosting recall for rare attack types by over 30%.
- Deployed a web interface using Streamlit to allow real-time predictions, log downloads, and monitoring of model behavior.

MongoDB Monitoring Dashboard | *Prometheus, Grafana, MongoDB Exporter* **June 2024**

- Developed a real-time dashboard to track CPU, memory, disk I/O, and query performance, improving system observability by 30%.
- Integrated Prometheus with MongoDB Exporter, enabling efficient performance metric collection for proactive monitoring.
- Designed custom Grafana panels and alerts, improving anomaly detection and reducing troubleshooting time by 45%.
- Optimized monitoring workflows, boosting operational efficiency by 40% and providing actionable insights.

Technical Skills

Languages: C/C++, Java, Python, HTML/CSS, JavaScript, SQL
Developer Tools: Git, GitHub, AWS, VS Code, VirtualBox, Google Colab, Postman, Jupyter Notebook
Technologies/Frameworks: Linux, React, Node.js, Express.js

Certifications

- Learn C++ Programming - Beginner to Advance- Deep Dive in C++ - View Credentials