

Veleti Manjunath Sharma

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EDUCATION

Sastra Deemed University

Bachelor of Technology in Information Technology
Grade – 8.5 GPA

Thanjavur, TN

Oct. 2022 – June. 2026

Sri Chaitanya Junior College

Intermediate Education - MPC
Grade – 98.4%

Hyderabad, TS

June. 2020 – May. 2022

PROJECTS

EchoSync | MongoDB, Express.js, React.js, Node.js, Socket.io, JWT, TailwindCSS

[GitHub](#)

- Engineered a full-stack real-time chat app enabling **instant messaging** between **100+ concurrent users** with **Socket.io** for efficient bi-directional communication.
- Achieved **<200ms message latency** under normal load and supported **live user presence tracking** with WebSocket events and Secured communication through **JWT-based authentication** and role-based access.
- Optimized frontend performance with **Zustand** state management, resulting in **30% faster render updates** compared to traditional Redux.
- Designed a mobile-first UI using **TailwindCSS** and **Daisy UI**, ensuring **100% responsiveness** across screen sizes and devices.

MedCipher FL | Python, Flower Framework, Homomorphic Encryption, MobileNetV2

- Developed a **privacy-preserving federated learning model for healthcare data** using Homomorphic Encryption to ensure data confidentiality.
- Achieved a **85% classification accuracy** while maintaining data privacy, evaluated using the **APTOS 2019 Blindness Detection** and **CIFAR-10 datasets**.
- Optimized **encryption and decryption time by 20%** compared to baseline models using **512-bit key** lengths.
- Collaborated with team members to design the system architecture and implemented the model using the **Flower framework for scalable federated learning** deployment and **MobileNetV2** for accurate image classification.

Serverless Fraud Detection API | FastAPI, Scikit-Learn, XGBoost, Postman

[GitHub](#)

- Developed a serverless credit card fraud detection API using FastAPI, achieving **98% accuracy and 95% precision** (Kaggle dataset) in **identifying** fraudulent transactions.
- Engineered dynamic model loading for **real-time predictions** using the latest trained models, ensuring up-to-date fraud detection
- Reduced response time by 40%** with optimized input processing and lightweight architecture.
- Conducted extensive testing using **Postman to validate** API endpoints, input validation, and error handling.
- Implemented **secure data handling** practices, maintaining data integrity and compliance with privacy standards.

TECHNICAL SKILLS

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

Frameworks: Express.js, Node.js, Django, FastAPI, Flower

Developer Tools: Git, VS Code, Visual Studio, PyCharm, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, React.js

Certifications

- Introduction to Cyber Security and Privacy – Prof. Saji K Mathew (NPTEL) | Jan 2025 | [Credential ID](#)
- Privacy and Security in Online Social Media – Prof. K.M. Ponguru (NPTEL) | April 2025 | [Credential ID](#)
- Mastering Linux: A Comprehensive Guide – Jannis Seemann (Udemy) | June 2025 | [Credential ID](#)