

Veleti Manjunath Sharma

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EDUCATION

Sastra Deemed University

Bachelor of Technology in Information Technology

Grade – 8.5

Thanjavur, TN

Oct. 2022 – June 2026

Sri Chaitanya Junior College

Intermediate Education - MPC

Grade – 98.4%

Hyderabad, TS

June. 2020 – May 2022

PROJECTS

Study Companion App / Python, Tkinter, JSON, PIL

- Developed a versatile study companion application integrating flashcard management, a notepad, and a quiz feature, utilizing Python and Tkinter for an engaging user experience.
- Managed up to **200 flashcards**, improving study efficiency by good rate and achieving **90% accuracy** rate in quiz functionality.
- Designed a **user-friendly GUI**, streamlining interactions and maximizing usability for an improved learning outcome.

SafeLearn AI / Flower Framework, Python, PyTorch, 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, Joblib, Postman, Machine Learning

- Developed a serverless credit card fraud detection API using FastAPI, achieving **98% accuracy and 95% precision** 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: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

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

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

Libraries: Pandas, NumPy, Matplotlib, PyTorch

Certifications

- Introduction to Dark Web, Anonymity and Cryptocurrency – EC Council
- Mastering Linux : A Comprehensive Guide – Jannis Seemann (Udemy)
- Introduction to Cyber Security and Privacy - Prof. Saji K Mathew (NPTEL)