

Shivaram Emmidi

Michigan, USA

Professional Summary

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Results-driven Computer Science graduate with a strong foundation in Software Development, Data Structures & Algorithms, and AI/ML. Skilled in building full-stack applications, chatbots, and scalable systems using Python, Java, React, and cloud platforms.

EDUCATION

Master's in Computer Science

Western Michigan University, Michigan, USA

Aug, 2023-Aug, 2025

Cumulative CGPA: 3.6/4

Bachelor's in Information Technology

Vignan Institute of Technology and Science, Telangana, INDIA

July, 2019 – May, 2023

Cumulative GPA: 7.75/10

Technical Skills

Languages: Python, SQL, C++, Java

Frameworks & Libraries: TensorFlow, Tableau, PyTorch, AWS, Git, Pinecone, Django, REST API, microservices, OpenCV

Concepts: Machine Learning, Deep Learning, Big Data Analysis, Agile Implementation, NLP, Fine-Tuning, Prompt-Engineering, LLM's

EXPERIENCE

AI/ML LEAD DEVELOPER (Developer's Club WMU)

- Engineered an intelligent **LLM-powered university chatbot** using **custom datasets** extracted from official university web pages, achieving 35% improvement in contextual accuracy.
- Integrated the chatbot seamlessly into the university website using **Python, Hugging Face Transformers**, and **OpenAI APIs**, enabling real-time academic support and increasing student engagement by **50%+**.
- Designed and fine-tuned **RAG-based architectures**, applied **prompt engineering**, and maintained 85%+ accuracy through regular retraining and evaluation across diverse student queries.
- Spearheaded a 5-member team as **AI/ML Lead Developer (Developer's Club WMU)**, overseeing system design, agile development, and hands-on **AI/ML workshops** to empower student innovators.

ACADEMIC PROJECTS

AI-Driven Real Estate Platform

- Engineered an AI-powered platform combining ML, NLP, Computer Vision, and Data Analytics for automated property valuation, market trends, tenant management, and maintenance alerts.
- Utilized TensorFlow and Keras for trend forecasting, OpenCV for virtual tours, and NLP models for automated tenant communication.
- Optimized system performance through hyperparameter tuning and data preprocessing pipelines.

Healthcare Chatbot

- Developed a disease prediction system using Python libraries (Pandas, NumPy) for feature extraction and scikit-learn's SVM for high-accuracy classification.
- Processed Kaggle datasets to reduce dimensionality and enhance prediction efficiency with feature engineering techniques.
- Integrated into a chatbot interface for real-time user interaction.

Facial Recognition for Crime Detection

- Developed a real-time facial recognition system integrating OpenCV, Dlib, and Eigenfaces for efficient identification.
- Employed Haar cascades for robust face detection and scikit-learn for feature matching against an indexed database.
- Secured data storage using AWS S3, implementing encryption and access control for sensitive data.
- Optimized recognition speed by streamlining image processing and database query handling.

CERTIFICATIONS

5-Day Gen Ai course 2024(Kaggle and Google).

Software Engineering Job Stimulation: Accenture.

[Published a paper on Digital Solutions to Combat Bribery and justice restoration system in ICETT2023.](#)

[Published a paper on Validation of Products and eliminating counterfeits using blockchain in CIISCA Conference 2023.](#)