KS VIGNESH

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Education

JSS Academy Of Technical Education   **Dec 2022 – Present**
Bachelor of Engineering in Artificial Intelligence and Machine Learning   *Bengaluru, Karnataka*

Relevant Coursework

- Data Structures
- Software Engineering
- Algorithm Analysis
- Database Management
- Artificial Intelligence
- Machine Learning
- LLM (Large Language Models)
- Computer Networks
- Operating Systems
- Blockchain

Experience

V2Soft   **July 2025 – Present**
LLM Intern   *Bengaluru, On-Site*

- Gained practical experience applying Large Language Models (LLMs) by contributing to the development of a proof-of-concept application for a real-world business use case.

Projects

Decentralized Mental Health Support Network | *FastAPI, Hyperledger Fabric, React, TypeScript*   **July 2025**

- Architected a Hyperledger Fabric blockchain for anonymous user authentication and a token-based reward system.
- Implemented an AI-powered peer matching system and real-time crisis detection to facilitate user support.
- Engineered a full-stack application using React/TypeScript frontend and a high-performance FastAPI backend.
- Secured user communications with end-to-end encryption and managed anonymous identities via wallet integration on the Polygon network.

Multimodal RAG Chatbot System | *Flask, Milvus, Computer Vision, Python, LLM*   **Mar 2025**

- Engineered a multimodal RAG system that processes both text and image inputs by integrating a vision-language model for real-time analysis.
- Architected a high-performance vector search backend using Milvus, validated on **11,000+ entries**, achieving **97% search accuracy** with average response time of **220ms**.
- Developed a modular, service-oriented architecture with robust RESTful APIs for chat, data management, and system monitoring.
- Ensured production-readiness via comprehensive error handling, performance tracking, and secure file upload validation.

LLM-Enhanced Speech-to-Text System | *Flask, faster-whisper, LLM, Python*   **Mar 2025**

- Developed a high-throughput speech processing system by integrating `faster-whisper` model for transcription and a custom LLM for intelligent text enhancement.
- Engineered a robust audio ingestion pipeline using `ThreadPoolExecutor` to concurrently process multiple formats (WAV, MP3, WebM) with validation and secure handling.
- Implemented context-aware session management and conversation history via asynchronous OpenAI-compatible API integration.
- Ensured system reliability and security by adding dynamic configuration, structured logging with performance metrics, and health monitoring endpoints.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, AWS, GitHub, TensorFlow, MongoDB, Power BI
Technologies/Frameworks: Linux, WordPress

Leadership / Extracurricular

ART-HOUSE **Spring 2023 – Present**
Photo Video Editor *JSSATE*
- Designed promotional posters and edited marketing videos for 'VERVE,' the annual college festival, using Adobe Photoshop, Illustrator, and Premiere Pro.

AIKYAM **Spring 2025 – Present**
Member *JSSATE*
- Aikyam is the AIML branch fest of the college.
- Co-organized one of the biggest hackathons in the college with over 90 teams and 400+ participants.