

# KS VIGNESH

7th Block Jaynagara, Bengaluru-70

☎ 8867919567

✉ [vigneshks2003@gmail.com](mailto:vigneshks2003@gmail.com)

🌐 [linkedin.com/in/gowdaop](https://www.linkedin.com/in/gowdaop)

## Education

### JSS Academy Of Technical Education

*Bachelor of Engineering in Artificial Intelligence and Machine Learning*

**Dec 2022 – Present**

*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

*LLM Intern*

**July 2025 – Present**

*Bengaluru, On-Site*

- Developed an LLM-based proof-of-concept app targeting business process automation, expediting data extraction and summary tasks by 65%.
- Delivered API endpoints and model prototypes adopted by cross-functional project teams, supporting accelerated innovation and time to MVP.

## Projects

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

**July 2025**

- Built a secure blockchain architecture (Hyperledger Fabric), enabling anonymous authentication and zero-knowledge identity management for 200+ users.
- Developed algorithmic peer-matching system with AI-powered crisis detection, connecting over 100 peers for real-time, needs-based support.
- Delivered a scalable, responsive full-stack application (React/TypeScript + FastAPI) enabling seamless onboarding and messaging with <0.5s average latency.
- Enforced robust encryption and Polygon wallet integration, eliminating personally identifiable data leaks and ensuring complete user anonymity and data integrity.

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

**Mar 2025**

- Designed and launched a production-grade Retrieval-Augmented Generation (RAG) chatbot capable of accurately analyzing both text and images; handled 11,000+ records with 97% vector search accuracy.
- Accelerated search and response times, achieving a consistent median reply time of ~220ms across datasets.
- Modularized system into RESTful microservices for enhanced testability, reliability, and rapid feature iteration.
- Hardened application security and stability by implementing strict file validation, centralized error tracking, and automated performance monitoring.

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

**Mar 2025**

- Integrated state-of-the-art speech models and LLM pipelines to boost transcript accuracy and reduce manual correction times by 90%.
- Parallelized audio ingestion via ThreadPoolExecutor, supporting concurrent conversion of WAV, MP3, WebM formats at 100+ files per minute.
- Developed context-aware session and history management, mirroring OpenAI chat experience for multi-turn conversations.
- Introduced continuous health monitoring and runtime configuration, reducing system downtime and maintenance overhead by 40%.

## Technical Skills

**Languages:** Python, Java, C, JavaScript (React), SQL, HTML/CSS

**Frameworks:** FastAPI, Flask, TensorFlow, Hyperledger Fabric, React

**Tools:** VS Code, AWS, GitHub, MongoDB, Power BI, Docker, Linux, WordPress

**Other:** Distributed Systems, Computer Vision, Large Language Models

Leadership / Extracurricular

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ART-HOUSE

Spring 2023 – Present

Photo Video Editor

JSSATE

- Produced 20+ promotional posters and edited 10+ marketing videos using Adobe Suite, contributing to a record 22% increase in VERVE festival attendance in 2024.
- Coordinated visual content strategies, ensuring brand alignment and media consistency for campus events.

AIKYAM

Spring 2025 – Present

Core Team Member

JSSATE

- Co-organized a flagship hackathon for 90+ teams (400+ participants), raising event sponsorship by 35% and driving campus engagement for the AIML department.
- Led logistics and outreach initiatives, streamlining registration and support for all participants.