

# KS VIGNESH

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## Education

### JSS Academy Of Technical Education

*Bachelor of Engineering in Artificial Intelligence and Machine Learning*

**Dec 2022 – Present**

*Bengaluru, Karnataka*

## Relevant Coursework

- Data Structures
- Database Management
- Deep Learning
- Software Engineering
- Artificial Intelligence
- Computer Networks
- Algorithm Analysis
- Machine Learning
- Operating Systems

## Experience

### V2Soft

**July 2025 – Present**

*LLM Intern*

*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

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

**July 2025**

- Built and deployed a multimodal RAG system handling **11,000+ text and image records**, achieving 97% search accuracy and a 220ms median response time.
- Designed a modular architecture with **RESTful microservices** to streamline testing, improve reliability, and accelerate feature deployment.
- Ensured production-readiness through rigorous **security hardening**, including file validation, centralized error logging, and automated performance monitoring.

### Maven Vulnerability Scanner | *Flask, MCP, asyncio, Python*

**Aug 2025**

- **Aggregated Vulnerability Intelligence:** Integrated OSS Index, NVD, and OSV.dev scanners to deliver comprehensive vulnerability analysis for Maven artifacts, improving detection accuracy.
- **Decoupled Architecture with MCP:** Architected the system using the Machine-Checked Protocol (MCP) to decouple the Flask web interface from the core scanning engine.
- **Intelligent Upgrade Advisor:** Implemented a feature to automatically check for the latest artifact version and provide actionable upgrade recommendations to remediate vulnerabilities.

## Technical Skills

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

**Frameworks:** FastAPI, Flask, TensorFlow, Ethereum, React, LangChain

**Cloud Platforms:** Google Cloud Platform (Vertex AI, Document AI), AWS, Oracle Cloud Infrastructure

**AI/ML:** Retrieval-Augmented Generation (RAG), Vector Databases (Milvus, FAISS), Large Language Models, Sentence Transformers, InLegalBERT, Nomic Embeddings

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

**Specialized:** Distributed Systems, Computer Vision, Multi-modal LLMs, Legal AI, Vulnerability Scanning APIs (NVD, OSV)

## Certifications

### Oracle Cloud Infrastructure 2025 Generative AI Professional

**Issued Aug 2025**

*Oracle*

*Course ID: 1Z0-1127-25*

## Leadership / Extracurricular

### 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.