

MOHANAKUMAR K

Artificial Intelligence Undergraduate

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SUMMARY

Artificial Intelligence undergraduate with hands-on experience in Machine Learning, Generative AI, Retrieval-Augmented Generation (RAG), and Agentic AI Systems. Proficient in Python, Java, and C, with practical experience building AI-powered applications and full-stack web solutions.

EDUCATION

B.Tech - Artificial Intelligence and Data Science | 2024 - 2028
Sri Manakula Vinayagar Engineering College - 8.49

Higher Secondary | 2023 - 2024
Stansford international Higher Secondary School - 78.9%

SSLC | 2021 - 2022
Stansford international Higher Secondary School - 87%

TECHNICAL SKILLS

AI: ML, Gen AI, Agentic AI, RAG, NLP

Programming: Python, Java, C

AI Frameworks: TensorFlow, PyTorch, Scikit-learn, LangChain, Hugging Face

Web & Frontend: FastAPI, Flask, Node, Angular, HTML, CSS, JavaScript

Database: MySQL, PostgreSQL, MongoDB

Developer Tools: Git, GitHub, Docker

ACHIEVEMENTS

- 2nd Place — SA Hackathon 2026 (Cyber Security & Digital Trust)
- 2nd Place — SMVEC Intra-Institutional Innovation Challenge
- Finalist — Hackelite 2026

CERTIFICATIONS

- Google AI-ML Virtual Internship — Google for Developers
- AWS Gen-AI Virtual Internship — AWS
- Alteryx Data Analytics & Process Automation

PROJECTS

AI Data Loss Prevention (DLP) System | Python, NLP, Machine Learning
Role: AI & NLP Developer | Backend Developer

- Developed a hybrid DLP system combining rule-based detection and NLP-driven content classification to identify and prevent unauthorized exposure of sensitive organizational data
- Applied Named Entity Recognition (NER) to detect PII across documents and communications, with a real-time risk scoring engine for context-aware sensitivity classification

Academic Evaluator using Retrieval-Augmented Generation (RAG) | Python, RAG, LLMs
Role: RAG Developer | Backend Developer

- Built a full-stack academic platform integrating RAG architecture with semantic search over a custom knowledge base to generate contextual, institution-specific feedback for student submissions
- Integrated role-based interfaces supporting multiple user levels, enabling structured academic workflows with reduced LLM hallucinations

AI-Assisted Testing Platform | CI/CD, GitHub Actions, Test Automation
Role: ML Engineer | Backend Developer

- Contributed to an AI-assisted software testing platform integrated with CI/CD pipelines to automate test execution across continuous deployment workflows
- Designed GitHub workflow-based automation pipelines, reducing manual testing overhead and improving release confidence

PUBLICATIONS

- Working Paper: Risk-Controlled NIL-Aware Entity Linking under KB Growth using Incremental Calibration — in preparation