

GOKULA KANNAN N

AI / ML Engineer | Machine Learning Engineer | Data Science

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◇ [GitHub](#)

PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience designing and deploying production-ready machine learning pipelines, LLM-powered applications, and REST APIs. Skilled in Python, TensorFlow, Scikit-learn, FastAPI/Flask, AWS, Docker, NLP, Computer Vision, and Retrieval-Augmented Generation (RAG). Delivered 20+ AI projects spanning predictive analytics, computer vision, and enterprise automation with measurable business impact.

TECHNICAL SKILLS

Languages Python, SQL

ML / AI Machine Learning, Deep Learning, NLP, MCP, LLMs, RAG, Prompt Engineering, Feature Engineering, Hyperparameter Tuning, Model Evaluation

Frameworks Scikit-learn, TensorFlow, Keras, PyTorch (Basic), XGBoost

Libraries NumPy, Pandas, Matplotlib, Seaborn, OpenCV (Computer Vision), Flask

AI Tools Claude (Anthropic)(Plugins, connectors), Hugging Face, Ollama

Cloud / Infra AWS (EC2, S3 – Basic), MySQL, Docker

Tools GitHub, Power BI, VS Code, Google Colab, Kaggle, UiPath (RPA)

Concepts Data Preprocessing, EDA, Model Deployment, Data Visualization, Computer Vision, IoT, Embedded Systems

PROFESSIONAL EXPERIENCE

AI / ML Engineer

Jul 2025 Present Coimbatore, TN

Ascentz Technologies

- **Architected and Delivered:** Designed and deployed 20+ production-grade ML pipelines across classification, regression, NLP, and computer vision, reducing ML model deployment time by 40%.
- **API Deployment:** Engineered scalable Flask REST APIs for real-time ML model inference, optimizing request handling, reducing response latency, and enabling reliable integration with frontend and enterprise applications.
- **Data Engineering:** Formulated and implemented production-grade data preprocessing pipelines, incorporating mechanized null value handling and feature selection; boosted downstream model accuracy by 12% and reduced data processing pipeline latency by 35%
- **Computer Vision:** Built OpenCV-based computer vision solutions for automated object detection and image classification, achieving 94% validation accuracy.
- **Version Control & CI/CD:** Streamlined development workflows utilizing Git and GitHub for rigorous version control, maintaining clean repository architectures, and driving collaborative team workflows.

PROJECTS

AI Academic Assistant – RAG-Based LLM Knowledge System [Link](#)

- Tech Stack: Python, Flask, LangChain, Groq API, Llama-3.3-70B, ChromaDB, MySQL, Hugging Face, JWT, Docker
- Engineered a Retrieval-Augmented Generation (RAG) system using LangChain, ChromaDB, and Groq Llama-3.3-70B for semantic question answering over academic documents.
- Built a hybrid retrieval pipeline with Sentence Transformers and Cross-Encoder reranking to improve retrieval relevance and reduce LLM hallucinations.
- Implemented secure Flask REST APIs with JWT authentication, document ingestion, vector indexing, and MySQL-based chat history management.

Invoice Processing & Financial Analytics Dashboard [Link](#)

- RPA Engineering: Built an end-to-end systematized corporate invoice processing workflow utilizing UiPath RPA bots, completely eliminating manual data entry pipelines and reducing operational processing time by ~70%.
- Business Intelligence: Designed advanced Power BI dashboards utilizing complex DAX computations to analyze and monitor 10+ financial KPIs, tracking GST metrics, vendor compliance, payment lifecycles, and quarterly trends.

EDUCATION

B.Sc. in Electronics and Communication System, RVS College of Arts and Science, Bharathiyar University (GPA: 7.63 / 10)

Jul '22 — May '25
Coimbatore – Sulur

- Relevant Coursework: Data Structures, Algorithms, Embedded Systems, IoT, Signal Processing

CERTIFICATIONS

AI Data Science with Machine Learning, APEX SYS