

# KISHORE R

Salem, Tamil Nadu

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## Professional Summary

Final-year B.Tech AI & ML student specializing in Generative AI, Agentic AI, RAG, and Multimodal AI. Experienced in building LLM applications, multi-agent workflows, semantic retrieval systems, and AI backends using Python, LangChain, LangGraph, FastAPI, and vector databases. Strong foundation in Machine Learning, Deep Learning and NLP, with a focus on reliable, production-oriented AI systems.

## Education

**B.Tech in Artificial Intelligence & Machine Learning**

**2023 – Present**

Bannari Amman Institute of Technology

## Technical Skills

|                          |                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>AI/ML &amp; GenAI</b> | Machine Learning, Deep Learning, LLMs, RAG, AI Agent, Voice AI                                                      |
| <b>Programming</b>       | Python and Java with Data Structures & Algorithms                                                                   |
| <b>Database</b>          | MySQL, PostgreSQL, Chroma DB, FAISS                                                                                 |
| <b>Tools</b>             | OpenAI, Git, Github, Scikit-learn, Pandas, NumPy, Sentence-Transformer, CLIP, BLIP, SSML, OCR, LangChain, LangGraph |

## Projects

**AI Data Analyst Agent — Multi-Agent Data Analysis Platform** *LangChain, LangGraph, Python, Pandas, numpy, FastAPI, OpenAI, Groq, Gemini, Sweetviz*

**Github:** [github.com/kishoreabc/data-analyst-agent](https://github.com/kishoreabc/data-analyst-agent)

- Automated CSV-to-insight analysis using a LangGraph state machine spanning profiling, task planning, Python execution, reflection, validation, and insight generation.
- Applied a Planner–Executor–Reflector workflow with sandboxed Python/Pandas execution, task retries, generated statistical evidence, and iterative analysis coverage checks.
- Enforced deterministic validation and verify-by-recompute gates that recalculate numerical claims from the source CSV before admitting evidence into LLM-generated insights.

**Multimodal Semantic Search for Fashion Recommendation System** *OpenAI, Groq, Pandas, Numpy, MetaCLIP, Chroma DB, BLIP, Tesseract OCR*

**Github:** [github.com/kishoreabc/Multi-Model-Semantic-Search-for-Fashion-Collections](https://github.com/kishoreabc/Multi-Model-Semantic-Search-for-Fashion-Collections)

- Addressed semantic fashion retrieval across text, image, and OCR queries using shared CLIP representations and vector similarity search.
- Used CLIP with ChromaDB to retrieve visually and semantically relevant products from natural-language and image inputs.
- Applied two-stage retrieval with CrossEncoder reranking, refining vector-search candidates using query–product, relevance scores supporting top-k search and metadata filtering.

## Certifications & Languages

**Navigate Lab**

Certification covering Prompt Engineering, RAG, and Voice AI.

**NPTEL**

Secured **92% (Elite + Gold)** in Programming in Java certification.

**Languages**

English, Tamil, Telugu.