

KUMARESAN K

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PROFESSIONAL SUMMARY

Final-year CS student focused on Generative AI and MLOps, with practical experience designing and deploying robust RAG and Agentic AI pipelines for scalable, real-world applications.

ACADEMIC QUALIFICATIONS

- **Bachelor of Engineering in Computer Science (Data Science)** *Annamalai University | CGPA: 8.26 Expected Graduation: May 2026*

TECHNICAL SKILLS

- **Languages:** Python, SQL, R, JavaScript, HTML/CSS
- **GenAI & NLP:** LangChain, RAG, ChromaDB, Groq API, Agentic AI, BERT, LSTM
- **ML & Data Science:** Scikit-Learn, TensorFlow, Keras, Pandas, NumPy, EDA
- **MLOps & Backend:** Flask APIs, Custom Pipelines, Git/GitHub, MySQL

PROJECT EXPERIENCE

Bangalore House Price Prediction (MLOps) | *Scikit-Learn, Flask*

- Built and deployed a production-ready ML pipeline with Flask APIs, real-time inference, structured logging, and exception handling.

GitHub Link: <https://github.com/kuman002/Bangalore-House-Price-Prediction>

Intelligent Study Assistant (RAG & NLP) | *Python, LangChain, ChromaDB, Flask*

- Developed a RAG system using LangChain, ChromaDB, and Groq API to enable semantic document search and reduce LLM hallucinations.

GitHub Link: <https://github.com/kuman002/academic-notes-ai>

Agentic AI Workflow Automation | *Python, Multi-Agent Systems*

- Designed a multi-agent AI system capable of breaking down complex prompts and autonomously executing tasks using tools and databases.

GitHub Link: <https://github.com/kuman002/agentic-backend>

Data Engineering Challenge (Slooze) | *Web Scraping, Pandas*

- Built automated web scraping pipelines, cleaned and transformed data with Pandas, and performed EDA to extract key insights.

GitHub Link: <https://github.com/kuman002/slooze-take-home-challenge>

LEADERSHIP & ACTIVITIES

- **Python Workshop Instructor:** Delivered hands-on sessions on Python and data analysis
- **Event Coordinator (COMPSEM):** Organized and managed a technical debate event
- **Git & GitHub Mastery:** Practical training in version control and collaboration