

Gulshan Kumar

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🎓 EDUCATION

Bachelor of Engineering in Computer Science
University of Jammu
2026 | Jammu, India

📁 PROJECTS

Agentic RAG ✍

Built an Agentic RAG system that combines retrieval-augmented generation with autonomous agent capabilities, enabling dynamic multi step reasoning and context aware responses over custom knowledge bases.

RAG based Chatbot - Medicare ✍

Created an AI chatbot utilizing Retrieval Augmented Generation (RAG) and Gemini API to manage inquiries effectively. Improved user experience by delivering intuitive, automated responses and real time support.

AI Research Agent ✍

A specialized AI research application with two specialized agents: IT Research Agent and Pharmaceutical Research Agent. Built with Django, LangChain, LangGraph, and LangSmith that use the RAG and web search to find the information for the report generation.

Autonomous Finance Agent ✍

An AI agent that goes beyond reporting financial data - it interprets and reasons through it. Built with GPT-4o and a LangGraph ReAct loop, it integrates 11 financial tools, a causal chain engine (Macro News → Sector → Stock → Portfolio P&L), LLM-as-a-Judge self-evaluation, and real-time SSE streaming with Langfuse observability.

AI Powered Calorie Burn Prediction and Management Tool ✍

Developed a Flask web application with XGBoost for predicting exercise calorie burn from a Kaggle dataset. Integrated a Bootstrap-based UI, containerized the application using Docker.

Synthetic Data Generation using NLP ✍

- **Data Preprocessing:** Cleaned and enhanced a dataset of 16,669 product reviews using standard scaling, text lemmatization, and word count analysis.
- **Model Development:** Created a custom deep learning model with attention mechanisms and Bidirectional LSTM layers to generate coherent product reviews.
- **Review Generation:** Implemented the model to generate high-quality product reviews.

Fine tuned T5 Model for Text Summarization ✍

Implemented and trained a T5 small model on the CNN/DailyMail dataset for text summarization tasks, utilizing the Hugging Face Transformers and PyTorch..

💼 EXPERIENCE

Python AI Developer (Full time) Swordfield Technologies Private limited

04/2025 – 09/2025 | WFH

- Developed a RAG based chatbot with Langchain and Open AI API with agentic capabilities for the platform.
- Integrated features such as database querying, app information search, keyword analysis, app tracking management, and automated task execution.
- Implemented API integrations and built modules for summary and performance report generation.

Software Engineer Contributor mailphix.com

01/2026 – 06/2026

- Developed a cold email outreach tool to streamline email campaigns.
- Implemented features such as email templates, scheduling, and tracking for efficiency.

🧠 SKILLS

Data science, Machine learning and Deep learning

Python, Supervised and unsupervised algorithms, Neural Networks, ANN, CNN, RNN, LSTM, Feature engineering, NLP, Transformers, Fine Tuning etc.

Generative AI - Agentic AI

LLMs, RAG, Vector DBs, A2A, MCP, Langchain, LangGraph, LangSmith, AI Agents, Fine tuning LLM, Open source LLMs.

Retrieval Augmented Generation - RAG

Indexing, Retrieval, Reranking, Vector DB, LLMs, Langchain, LangGraph, LangSmith, Evaluation

Python and Frameworks

Python, Scikit-learn, Numpy, Pandas, NLTK, Langchain, Langgraph, Streamlit, Django, FastAPI, etc.

📜 CERTIFICATIONS

- Machine learning, Deep learning & NLP specialization
- Professional Agentic AI (NCP AAI) - Manifold Learning

🏠 ORGANIZATIONS

GeeksforGeeks Technical writer

01/2023 – 05/2023

- Authored 23+ technical articles on computer science.

Chegg India Subject Matter Expert

05/2023 – 11/2024

- Solved 400+ questions in probability and statistics.