Harshal Malani

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Education

Shri RamdeoBaba College of Engineering and Technology

Aug 2023 – Feb 2027

B. Tech (Information Technology)

4th Semester (8.93 CGPA)

Skills

Programming Languages: Python, Javascript, Typescript, Go, Rust

Tools: Git, Docker, Kubernetes, Linux

ML and GenAI: Scikit-Learn, Pandas, Matplotlib, Seaborn, LangChain, LangGraph, CrewAI

Experience

Open Source Contributor

Mar 2025 - Present

Kubeflow

 \bullet Merged 4 PRs into the kubeflow trainer and added test coverage using Go testing framework

Projects

Open Deep Research | LangChain, LangGraph, Groq, Together | GitHub

- Inspired by Perplexity AI's deep research, built an open, modular version focused on agentic graph execution and LLM-tool integration
- Utlized multi agent workflow with Langgraph

AI Research Paper Analyzer | CrewAI, Groq, Llama-3.1(8b) | GitHub

- Developed an AI-driven system for research paper evaluation with 100% classification accuracy
- \bullet Implemented conference recommendation logic with 60% accuracy, analyzing 150+ papers with detailed reports
- Optimized processing with 27 requests per minute, handling 25,000 input tokens and 17,000 output tokens per request

Subscription Microservice | Go, Redis, Swagger, PostgreSQL, Fiber | GitHub

- Built a scalable subscription microservice using Go with handler, service, and repository architecture patterns
- Implemented retry mechanisms and Redis caching to enhance system reliability and performance
- Integrated PostgreSQL database with Swagger API documentation for comprehensive service management
- Optimized data retrieval performance from 315ms to 2ms, achieving a 99.4% improvement in response time

Research Hub | LangChain, Groq, Llama-3.1(8b) | GitHub

- Built an innovative agentic platform where LLMs conduct expert-level research and generate academic papers from simple prompts
- Enabled seamless publication to a centralized hub, fostering collaborative discussions among researchers, similar to Stack Overflow

Ground Water Level Analysis | Tensorflow, Pandas, Numpy, Matplotlib, Seaborn | EDA | Cleaning | Combination

- Analyzed European ground water level patterns using time series models like ARIMA and SARIMAX
- Worked with large datasets from multiple ZIP files, gaining experience in data pre-processing, model training, and predictive analytics

Saksham | Clerk, NextJs, MongoDB, Spacy, WireShark, Langchain, Groq | Web | Firewall | Live

- Developed a platform for individuals and organizations, offering AI-curated blogs and personalized learning tracks
- Designed enterprise-grade security solutions, including an AI-powered firewall and intrusion detection system
- Built a network traffic classification model using the CIC dataset, achieving 98.75% accuracy
- \bullet Integrated a Threat Intelligence system with an LLM-powered chatbot (Llama-3.1 8B) for analyzing past cyberattacks

Colosseum | NextJs, AccternityUI, Framer Motion | GitHub | Live

- Developed the official webpage for Colosseum, the annual fest of the department
- Built an interactive and visually engaging website using React Three Fiber
- Designed and implemented multiple pages, including Events, About, and Registration, ensuring a seamless user experience
- Integrated Aceternity UI for a modern and responsive interface. Deployed the website on Vercel for high availability and performance