

SHREE AARTHE P

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EDUCATION

Dayananda Sagar University, B.tech CSE (AI/ML) - 2025
CGPA: 8.69

Shemford School, 12th - 2021
Percentage: 90.8

SKILLS

Languages	Python, Java, SQL, C
Web & Backend	React.js, Streamlit, MongoDB, RESTful APIs, HTML/CSS
AI/ML Frameworks	LangChain, LangGraph, Graphiti, RAGAS, TensorFlow, PyTorch, Scikit-learn, Pandas
Architectures	RAG, Agentic Workflows, Multi-Agent Systems, Transformers
Concepts	Asynchronous Programming, ReAct Pattern, Vector Search
Tools & Platforms	Git/GitHub, GitLab, Linux, VS Code, Google Colab, Groq, Ollama

EXPERIENCE

IQVIA, Bangalore July 2025 - Present
Software Developer Trainee

- Developed an end-to-end **RAG** pipeline using **LangChain**, combining BM25 and FAISS (BGE-large) strategies; validated pipeline quality using RAGAS (97% precision/recall).
- Created an **Agentic POC** in C# and Go using the ReAct pattern with a modular Tool Registry, conducting comparative research on Java-based AI frameworks vs. Python LangGraph.
- Benchmarked **Agentic** flow implementations across Java, Rust, Go, C#, and JS, analyzing trade-offs in latency, concurrency, and power efficiency.
- Engineered a Marketing Mix Simulation Engine using Python and **LangGraph**, featuring asynchronous parallel scenario execution and automated PowerPoint generation.
- Built a Full-Stack GenAI Search Application with **Streamlit** integrating Groq and Ollama with real-time token analytics to monitor API consumption costs.
- Implemented Authentication using React and Firebase with Google/GitHub OAuth, managing JWT tokens via Context API and protecting routes.

Titan Company, Hosur July 2024 - August 2024
Software Intern

- Developed a **time series sales prediction** model using LSTM and Conv1D to effectively capture both long-term temporal dependencies and local sequential patterns in historical sales data.
- Preprocessed and structured data for deep learning, improving model efficiency and accuracy.
- Outperformed traditional forecasting methods, demonstrating lower MAE and RMSE across test datasets. [Link](#)

PROJECTS

- Automated Legacy Code Migration Agent.** Engineered a self-correcting autonomous agent using **LangGraph** and **Llama 3.3** that iteratively migrates legacy Java code to Python, utilizing a static analysis feedback loop to autonomously resolve syntax errors and reduce manual refactoring effort by 40%. [Link](#)
- Market Pulse Intelligence System.** Developed a Search-Augmented Generation (RAG) pipeline using **LangGraph** and **Tavily** API that orchestrates concurrent deep-web scraping and Llama 3 (70B) synthesis to transform unstructured financial data into structured strategic intelligence reports (SWOT, Sentiment Analysis). [Link](#)

PUBLICATIONS & ACHIEVEMENTS

- Published "A Hybrid Approach for Deep Fake Detection Using Deep Learning Algorithms" in *PEIS 2024* conference proceedings (pp. 137–146) on December 5, 2024. [Link](#)
- Presented "Hybrid Novel Approach to Breast Cancer Detection" at *ICAIH 2025* (March 2025). (Under review).

CERTIFICATIONS

- ServiceNow Certified System Administrator (CSA) – ServiceNow
- ServiceNow Certified Application Developer (CAD) – ServiceNow
- Machine Learning with Python – IBM