# SHREE AARTHE P

+91 8072942231 ◇ [shreeaarthe9@gmail.com](mailto:shreeaarthe9@gmail.com) ◇ linkedin ◇ github

## EDUCATION

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| **Dayananda Sagar University**, B.tech CSE (AI/ML) - 2025 | **Shemford School**, 12th - 2021 |
| CGPA: 8.69 | Percentage: 90.8 |

## SKILLS

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|---|---|
| **Languages** | Python, Java, C#, Go, SQL, JavaScript, C |
| **Web & Backend** | React.js, Streamlit, Node.js, Firebase, 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 App using **Streamlit** integrating multiple LLM providers (Groq, Ollama) and Tavily search implemented real-time analytics for token consumption.
- 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 (Java to Python).** Engineered a self-correcting autonomous agent using LangGraph and Groq (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
- **MarketPulse – Autonomous Competitor 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