

# 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

<b>Languages</b>	Python, Java, C#, Go, SQL, JavaScript, C
<b>Web &amp; Backend</b>	React.js, Streamlit, Node.js, Firebase, MongoDB, RESTful APIs, HTML/CSS
<b>AI/ML Frameworks</b>	LangChain, LangGraph, RAGAS, TensorFlow, PyTorch, Scikit-learn, Pandas
<b>Architectures</b>	RAG, Agentic Workflows, Multi-Agent Systems, Transformers
<b>Concepts</b>	SOLID Principles, Asynchronous Programming, ReAct Pattern, Vector Search
<b>Tools &amp; Platforms</b>	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 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

- Breast cancer detection using ensembled model.** Engineered an ensemble deep learning model (Swin Transformer, EfficientNet, DenseNet) achieving 93.01% validation accuracy. Improved diagnostic precision and reduced false positives across medical imaging datasets.
- Hybrid approach for Deep Fake Detection.** Designed a hybrid model combining CNNs and RNNs to detect deep fakes by extracting spatial/temporal features, enhancing detection accuracy and robustness against manipulation.
- Fake News Detection Using Embedded LSTM.** Built an embedded LSTM model integrating pre-trained word embeddings with stacked LSTM layers to detect fake news, surpassing traditional NLP methods.

## PUBLICATIONS & ACHIEVEMENTS

- Published "A Hybrid Approach for Deep Fake Detection Using Deep Learning Algorithms" in *PEIS 2024* proceedings (Dec 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