

Arthika V S

AI Engineer

AI Developer with expertise in **Data Science**, **Generative AI**, and **Agentic AI**, specializing in **LLM fine-tuning**, **multi-agent systems** (including MCP). Demonstrated hands-on experience in building intelligent solutions by integrating **Large Language Models (LLMs)** into real-world applications. Proficient in API integration, workflow automation, and optimization, leveraging emerging tech stacks to drive innovation and efficiency.

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WORK EXPERIENCE

AI Developer ConceptVines

12/2024 - Present

Chennai, Tamil Nadu

Achievements/Tasks

- Developed AI workflows using Crew AI and integrated AWS Bedrock.
- Created GraphRAG systems with Neo4j and used sentence transformers for retrieval.
- Built and deployed AI apps using Flask, FastAPI, Streamlit, and Gradio.
- Used Nginx, Docker, and VMs for secure model deployment.
- Built conversational AI using avatars and TTS with Elai.io and D-ID.
- Worked on proposal evaluation, fraud detection (GAT, GAN), and synthetic data generation.

Frontend Developer & Digital Marketer Skanda Marketing

05/2023 - 11/2024

Coimbatore, Tamil Nadu

Achievements/Tasks

- Designed responsive websites using HTML, CSS, Bootstrap, and JavaScript.
- Improved UX/UI and website SEO for increased user engagement.
- Managed lead generation and social media strategies to grow the business.

EDUCATION

B.Tech in Information Technology

KGiSL Institute of Technology, Tamil Nadu, India

2019 - 2023

8.4

Courses & Projects

- **Programming with JavaScript** – Meta (Coursera)
- **Programming in Python** – Meta (Coursera)
- **C Programming** – GUVI
- **Version Control, Front-End Development** – Meta (Coursera)
- **Online Course Reservation System**: Android app for real-time course bookings.
- **Data Dissemination via VANET**: Simulation-based research on data transmission in vehicular networks.

SKILLS

Programming Languages: Python, JavaScript, C, Java

LLMs & AI Tools: Hugging Face, vLLM, Ollama, DeepEvals, LangChain, LangGraph, GraphRAG, OpenAI, Sentence Transformers

Web & API Development: Flask, FastAPI, Streamlit, Gradio, HTML, CSS, JavaScript, Bootstrap

Databases & Embeddings: Neo4j (Cypher), SQL, ChromaDB, OpenAI Embeddings

AI Agents & Video Avatars: Crew AI, Elai.io, D-ID, TTS

Deployment & DevOps: Nginx, Docker, Vercel (v0.dev), Virtual Machines, AWS, Azure

Tools & Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Postman, Serper API, Tavily

Web Scraping: BeautifulSoup, Selenium, Serper DevTool

Other: MCP, OpenManus, OpenWebUI

PROFESSIONAL WORK HISTORY

GraphRAG Knowledge System – Intel

- Built a Graph-based RAG system integrating Neo4j, vector databases, and OpenAI embeddings to enable contextual knowledge retrieval across structured and unstructured data sources.
- **Role**: AI Developer
- **Technology Used**: Neo4j, OpenAI Embeddings, Sentence Transformers, Python, FlaskAPI, Docker, PostgreSQL, LangChain, LangGraph, ChromaDB

Fraud Detection Using GAT and GAN – Intel

- Implemented a hybrid GAT-GAN model to detect fraudulent transactions by learning graph-structured behavior patterns and generating synthetic anomalies for model training.
- **Role**: Machine Learning Engineer
- **Technology Used**: PyTorch, DGL, GAN, GAT, Python, Cypher (CQL), Neo4j

Fall Risk Prediction Using DQN – Intel

- Designed a DQN-based agent to classify fall risk levels in elderly patients using synthetic health data, trained in a custom RL environment for optimal clinical decision simulation.
- **Role**: Reinforcement Learning Engineer
- **Technology Used**: Python, PyTorch, DQN, NumPy, Pandas, Scikit-learn, Matplotlib

Diagnosis Code Validation & Auto-JIRA Agent – IQVIA

- Created an NLP-based system to detect invalid diagnosis codes and auto-fill missing values. Automated JIRA ticket creation for anomalies to streamline healthcare data workflows.
- **Role**: AI Automation Engineer
- **Technology Used**: Python, spaCy, Regex, FastAPI, Jira API, Pandas, NumPy