Ayesha Afifa

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EDUCATION

SRM University   **July 2024 – May 2026**
Master of Computer Applications – Generative AI
Karim City College   **July 2021– May 2024**
Bachelor of Computer Applications

SKILLS

- **Languages**: Python, Java, C/C++, SQL
- **Frameworks & Libraries**: TensorFlow / Keras, PyTorch, LangChain, Hugging Face Transformers, Scikit-learn
- **LLMs & Agent Development:** Google Agent Development Kit (ADK), OpenAI GPT (API, ChatGPT)
- **Core AI/ML Skills:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Generative AI, Reinforcement Learning, Prompt Engineering
- **Data Science & Analytics:** Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA), Statistical Analysis, Data Visualization
- **Tools**: Git, GitHub, VS Code

PROJECTS

CSV Query Agent
• Built an AI agent using Google ADK to convert natural language questions into SQL queries for CSV files using DuckDB.
• Integrated FastAPI and Python for a lightweight, responsive backend service.
• Enabled guided multi-step reasoning via *before_agent_callback* without direct file access.

Pet Store MERN
• Developed a full-stack e-commerce app using MongoDB, Express.js, React.js, and Node.js.
• Implemented user login, product listings, shopping cart, and secure RESTful APIs.
• Designed a responsive UI with real-time form validation and dynamic CRUD operations.

CardioGuard Insight
• Built a heart disease prediction system using Decision Tree, Random Forest, Naïve Bayes, and KNN.
• Processed clinical data, performed EDA, and visualized key metrics using Python.
• Designed a simple, intuitive dashboard for risk prediction and health insights.

CERTIFICATES

- AWS Certified Developer – Data Engineering
- Google Android Developer Virtual Internship