

MOHAMED AFRITH S

Data Scientist / AI ML Engineer / Data Analyst

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SKILLS

- Python, Data Visualization, SQL, LLM, GenAI, Agentic RAG, Agentic AI, Chatbot, n8n Automation, Machine Learning, NLP, Deep Learning, Selenium, Looker Studio, PowerBI, Hugging Face, Streamlit, AWS Cloud, ML Flow

EDUCATIONAL QUALIFICATIONS

IIT-M Advanced Programming Professional & Master Data Science,
IIT- M GUVI
07/2024 – 03/2025 | Chennai

MBA
SRM Institute of Science and Technology
2023 – 2025 | Chennai

Bachelor of Optometry
Vasan Institute of Ophthalmology and Research
2017 – 2023 | Chennai

ACHIEVEMENTS & AWARDS

Won Best Innovation Award in National level Machine Learning Datathon

Won 3rd place in Intra college quiz competition

Won 3rd place Inter college quiz competition held in Madurai

PROFILE

Data Scientist and AI/ML Engineer with hands-on experience in data preprocessing, model training, LLM prompt engineering, and RAG-based chatbot development. Proficient in Python, SQL, LangChain, Hugging Face, and AWS. Built scalable GenAI solutions and performance dashboards; recognized with Best Innovation Award in a national ML Datathon. Holds a Master's in Data Science from IIT-M GUVI and an MBA from SRM Institute.

PROJECTS

My Zoom: A Transformer-Based Model for Contextual Feedback Validation

Key Skills: Transformers (BERT), NLP, Text Classification, Hugging Face, PyTorch

- **Developed** a Transformer-based feedback validation model using BERT, achieving **91.2% accuracy** and improving contextual feedback classification by **23% over traditional methods**.
- **Automated** preprocessing and analysis of **15,000+ feedback entries**, reducing manual review effort by **60%** through contextual understanding and classification.

Predicting Depression from Mental Health Survey Data using Deep Learning

Key Skills: Streamlit, Binary Classification, Cloud Deployment

- **Developed** a deep learning model using TensorFlow/Keras to predict depression from a dataset of **3,000+ survey responses**, achieving **91% accuracy** and **0.92 AUC-ROC**.
- **Deployed** the model via a user-friendly Streamlit app, enabling real-time mental health screening with dynamic visual insights and streamlined user interaction.

Redbus Data Scraping with Selenium & Dynamic Filtering using Streamlit

Key Skills: Web Scraping, Selenium, Streamlit, Dynamic Filtering, Automation, UI Development

2024

- **Automated the extraction of over 5,000 bus listings from Redbus using Selenium and Developed an interactive Streamlit dashboard** with dynamic filtering by price, departure time, ratings, and operators, enabling real-time insights and reducing user query time by 60%.

WORK EXPERIENCE

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AI Data Analyst

03/2025 – Present

- Led end-to-end development of AI workflows by processing 10,000+ records using Python and Pandas, training/testing a custom Donut model, creating 4+ performance dashboards, and building a RAG-based chatbot with LangChain, FAISS, and LLaMA3 (via Groq API); leveraged LlamaParse for extracting structured data from 100+ PDFs and optimized LLM prompt design to boost response accuracy by 40% and model evaluation efficiency by 25%.