

Munshif Muhajireen

AI/ML Engineer

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TECHNICAL SKILLS

Languages: Python (Pandas, Numpy, Scikit-learn, PyTorch, FastAPI), SQL (MySQL, MongoDB, PostgreSQL), Java, C++, JavaScript (React, Node.js, Express.js), HTML, CSS

GenAI: Langchain, RAG Chatbots, LLM Fine-Tuning

Tools & Others: Git, Github, VSCode, RStudio, PowerBI, Airtable, Make, Excel

PROFESSIONAL EXPERIENCE

Freelancing (Software & AI)

2025 – Present

- Built and deployed full-stack web application and AI-powered chatbot for multiple clients.
- Managed complete development lifecycle including frontend, backend, database design, hosting, and production deployment.
- Built responsive and user-friendly websites with focus on performance, security, and usability.
- Worked independently to understand client needs and deliver functional, scalable solutions on time.

PROJECTS

Customer Churn Prediction & Predictive Analytics

[Project Link](#)

- Engineered and evaluated multiple classification models, including Random Forest and Logistic Regression, to predict customer attrition with 79% accuracy.
- Applied GridSearchCV to fine-tune model parameters, improving predictive performance and reliability.
- Performed Exploratory Data Analysis on 7,000+ customer records to identify churn drivers such as contract type and monthly charges, informing actionable retention strategies.
- Built and deployed a Streamlit churn-prediction application on Hugging Face Spaces for interactive model exploration.

Bitcoin Price Prediction – LSTM Time Series Forecasting

[Project Link](#)

- Built a Stacked LSTM neural network using a 100-day sliding window to analyze historical Bitcoin cycles, implementing a specialized loop to generate 10-day future price forecasts.
- Engineered a production-ready FastAPI service that automates live data collection and preprocessing, connecting the AI model to an interactive dashboard for real-time price visualization.
- Built a complete pipeline that handles MinMaxScaler normalization and inverse transformations to convert raw model outputs into human-readable currency values.

Semantic Contradiction Detection in Reviews

[Project Link](#)

- Developed a semantic contradiction detection pipeline for product reviews using Natural Language Inference (NLI) to identify logically inconsistent sentence pairs.
- Implemented claim extraction and pairwise contradiction scoring, leveraging pretrained language models to compute contradiction probabilities with high accuracy.
- Designed an end-to-end system integrating text preprocessing, semantic analysis, and confidence scoring, producing interpretable outputs for real-time review evaluation.

Unsupervised Book-Genre Clustering

[Project Link](#)

- Engineered end-to-end unsupervised learning pipeline by web-scraping 50,000+ book records and implementing K-Means clustering for automatic genre categorization from unlabeled data
- Designed feature engineering pipeline combining TF-IDF vectorization on textual features (title, author) with numerical features (ratings) and applied feature scaling for optimal clustering
- Deployed production-ready Flask API with web interface for real-time genre prediction using serialized TF-IDF vectorizer, scaler, and K-Means models

AI-Powered Medical Chatbot with RAG

[Project Link](#)

- Developed a specialized AI system that provides accurate answers to medical questions by linking a Large Language Model (LLM) to a verified database of medical textbooks.
- Integrated a Pinecone vector database to enable "semantic search," allowing the system to understand the meaning behind medical queries rather than just matching keywords.
- Built a custom data pipeline using LangChain and OpenAI to ensure the AI only uses high-quality, retrieved medical context to generate its responses, reducing the risk of "hallucinations."

EDUCATION

BSc (Hons) Computer Science with AI

2023 – 2026 (Reading)

National Institute of Business Management (Coventry University, UK)

- Relevant Coursework: Machine Learning, Probability & Discrete Mathematics, Data Structures & Algorithms, NLP

CERTIFICATIONS

- Introduction to Large Language Models (Google Cloud) [Certificate Link](#)
- Deep Learning (DeepLearning.AI) [Certificate Link](#)
- Neural Networks and Deep Learning (DeepLearning.AI) [Certificate Link](#)
- Introduction to Computer Vision and Image Processing (IBM) [Certificate Link](#)
- Responsive Web Design (freeCodeCamp) [Certificate Link](#)