

Atiq Ur Rehman

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Professional Experience

AI ML Engineer Intern Horizon Tech Services (NUST) Pvt Ltd Islamabad.

January 2025 – March
Islamabad, Pakistan

A. Chat With Data: [Link](#)

- Developed "Chat_with_Multiple_Sources" solution enabling users to interact with diverse document formats (PDF, TXT, DOC) and websites through natural language queries.
- Implemented ChromaDB to efficiently store and retrieve document embeddings, optimizing search performance and context relevance.
- Optimized Gemini API with prompt engineering for higher-quality responses across multiple information sources.

B. Booking Appointment Automation Agent : [Link](#)

- Built an Appointment Automation Agent to book, check, and cancel appointments.
- Collected user details including Name, Email, Date, Time, and Purpose, and stored them in a database.
- Implemented input validation to ensure correct email, date, and time formats.
- Allowed users to check existing appointments by providing their email.
- Enabled appointment cancellation by verifying records in the database.
- Sent automated confirmation and cancellation messages to users via email.

C. Ticket Resolution Agent With Multi step Reviewer : [Link](#)

- Engineered an end-to-end intelligent ticket processing system using LangGraph, Groq LLMs, and Retrieval-Augmented Generation.
- Built a strict classification pipeline with confidence scoring and fallback handling for ambiguous or vague tickets.
- Implemented content chunking and integrated Chroma vector databases with Hugging Face embeddings for scalable semantic search.
- Designed context-aware response generation that leverages similarity retrieval from stored tickets.
- Added automated validation and workflow orchestration to ensure professional, accurate, and consistent ticket responses.
- Structured the system for modularity and future extensibility, enabling easy updates and category expansion.
- The system was built using Python, LangChain, LangGraph, ChromaDB, Hugging Face embeddings, Groq LLMs, and dotenv for environment configuration.

D. Expense Tracker | Google Drive | Manim | Weather Updates MCP SERVERs : [Link](#)

2023/05 – 2024/02

- Developed a modular backend server using FastMCP to integrate multiple services including Expense Tracker, File Manager, Manim, Google Drive, and Weather Updates.
- Built and connected PostgreSQL databases for secure data storage and dynamic expense tracking with real-time updates.
- Integrated Claude-Desktop on the client side to enable interactive AI-assisted features and seamless user interaction.
- Designed REST-like MCP tools for efficient communication between client and server modules, ensuring scalability and modularity.

Education

Computer Science: University of Science and Technology, Bannu CGPA: 3.23

2020 – 2024
Bannu, Pakistan

Cloud Computing AWS,Docker and Python

Skills

Generative AI: (LLMs),(RAGs),Vector DataBases (ChromaDB,FAISS,Pincone) APIs(OpenAI,Gemini,Anthropic)

Deep Learning: ANN,CNNs,RNNs,LSTMs,GRUs,Transformers Models, Hugging Face.

Machine Learning: Linear Regression, Logistic Regression, K-Nearest Neighbour, Support Vector Machine, Random Forest, Decision Tree, Gradient Boosting, XGBoost.

Data Analytics and Visualization: Pandas, Numpy, Matplotlib, Seaborn, Plotly, SQL

Frameworks and APIs: Scikit-Learn, TensorFlow, Keras, PyTorch, LangChain,LangGraph FastAPI

Automation: n8n,Voice Platforms (Deepgram, ElevenLab, OpenAi, Livekit)

Projects

Google Chrome Plugin for YouTube Comments Sentiment Analysis (FYP)

- Tech Stack: Python, Numpy, Pandas, Matplotlib, NLP, DistilBert, Bert, Deep Neural Networks, Flask
- Trained model with an accuracy of 96% for three sentiments using BERT and Deep Neural Network
- Integrate the trained model into a Chrome extension that allows users to visualize YouTube comments as Positive, Negative, or Neutral.
- Dockerized and Deploy on AWS EC2 instance.