

# Atiq Ur Rehman



Pakistan



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<https://github.com/AtiqUrRehman17>

[My Portfolio Link. Click Here.](#)

## Professional Experience

### JMM Technologies, Data Scientist Intern

January 2025 – March

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

Peshawar, Pakistan

- 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](#)

- I engineered an end-to-end intelligent ticket processing system using LangGraph, Groq LLMs, and Retrieval-Augmented Generation.
- I built a strict classification pipeline with confidence scoring and fallback handling for ambiguous or vague tickets
- I implemented content chunking and integrated Chroma vector databases with Hugging Face embeddings for scalable semantic search.
- I designed context-aware response generation that leverages similarity retrieval from stored tickets.
- I added automated validation and workflow orchestration to ensure professional, accurate, and consistent ticket responses.
- I 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.

## Education

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

2020 – 2024

Bannu, Pakistan

Extensively studied Data Analytics, Data Communication, AI, MachineLearning,Deep Learning,Generative Ai  
Cloud Computing AWS,Docker and Python

## Skills

**Generative AI:** Large Language models (LLMs), Retrieval-Augmented Generation (RAGs),Vector DataBases (ChromaDB,FAISS,Pincone) APIs(OpenAI,Gemini,Anthropic)

**Deep Learning:** Convolutional Neural Network, Recurrent Neural Network, Long Short Term Memory, 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

## Projects

### Google Chrome Plugin for YouTube Comments Sentiment Analysis (FYP).

2023/05 – 2024/02

- 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
- 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.