

Muhammad Haziq Ijaz

Data Scientist & AI Engineer

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Education

FAST - National University of Computer and Emerging Sciences

Aug 2021 – Jun 2025

Islamabad, Pakistan

Bachelor of Science (Data Science)

- Bronze Medalist
- **Relevant Coursework:** AI, NLP, Multi-Agent Systems, MLOps, Advanced Statistics, Data Warehousing, Data Mining, Big Data Analytics, Deep Learning

Skills & Tools

Programming: Python, C++, SQL, JavaScript

Frameworks & Libraries: Scikit-learn, TensorFlow, PyTorch, Keras, Pandas, NumPy, Matplotlib, Seaborn, Flask, Streamlit, React, LangChain, Faiss

Data & Tools: Hadoop, Spark, Kafka, MongoDB, ETL, Data Warehousing, Tableau, D3.js

DevOps: Git, Docker, Jenkins, K8s

Soft Skills: Analytical Thinking, Problem-Solving, Leadership, Teamwork

Work Experience

Elyptra

Islamabad, Pakistan

Automation Engineer

Jun 2025 – Present

- Built Extranjer-IA, a legal document automation platform for Spanish immigration, with AI-powered questionnaires, automated document generation, multi-channel support (web, Telegram, email), and Stripe-based payments — reducing processing time from days to minutes.
- Developed a sourcing automation tool that pulls open roles from PyjamaHR, enriches them with LinkedIn data (profiles, emails, posts), and exports clean CSVs, helping recruiters target outreach faster and increase response rates.

NESCOM

Islamabad, Pakistan

AI & Big Data Engineer

Jul 2024 – Jun 2025

- Developed an AI/ML-powered maritime system analyzing vessel deployment, detecting anomalies, and predicting operations.
- Provided data-driven insights for fleet management, route optimization, fishing analysis, and deployment.

KDD LAB, FAST NUCES

Islamabad, Pakistan

Machine Learning Intern

Jun 2023 – Aug 2023

- Built an Amazon Recommendation Engine using Spark, Kafka, MongoDB, and Flask.
- Processed 136GB of text data, significantly improving recommendation accuracy and user experience.

Projects

MARITIME AI [Python, Spark, MongoDB]: Analyzed vessel deployment patterns, predicted operational statuses, and detected anomalies using historical data to provide actionable insights for fleet management.

ETL for Data Warehouse - METRO Shopping Store [SQL, JavaScript]: Developed a near real-time data warehouse implementing the MESHJOIN algorithm for optimized data integration and management.

DailyNewsGen [Python, React, RAG]: Implemented a Generative AI model for real-time news scraping and storage. Utilized Retrieval-Augmented Generation (RAG) for dashboard insights and QA.

Future Frame Prediction [Deep Learning, Python]: Applied Deep Learning models (ConvLSTM, PredRNN, Transformers) for future video frame prediction on UCF101, achieving 0.75 SSIM via robust data preprocessing pipelines.

AI Multimodal Chatbot Platform [Python, Flask, GPT-4, YOLOv8]: Built a full-stack assistant supporting chat, voice, and file input. Enabled multimodal content summarization, real-time webcam detection, and dynamic persona interaction.

Certifications

Neural Networks with PyTorch — IBM (Jun 2024)

Data Analytics — LinkedIn (Aug 2024)

Data Analytics Foundation: 1 — LinkedIn (Aug 2024)