

Ahmed Raza

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SUMMARY

High-Impact AI Engineer with hands-on expertise in designing, developing, and deploying machine learning models and AI systems. Proven track record of building scalable AI solutions that drive business growth and improve user experiences.

WORK EXPERIENCE

AI/ML Intern

NCL - NED
June 2025 - August 2025
Karachi

- **Developed** multiple machine learning projects, including a Unit Consumption Predictor with **95%** accuracy in predicting electricity unit consumption for the upcoming month.
- **Built** and deployed NLP-based applications such as a Music Sentiment Analysis Tool with **90%** accuracy in sentiment analysis and the Resume Analysis Hub with a user base of **500+**.
- **Applied** techniques like feature engineering, model evaluation, and performance optimization across various datasets, resulting in a **30%** improvement in model performance.
- **Collaborated** with cross-functional teams to integrate models into user-friendly interfaces and dashboards, reducing development time by **40%**.

Development Intern

CSIT Department - NED
January 2025 - Present
Karachi

- **Improved** user experience and optimized UI performance for internal platforms by **25%**.
 - **Developed** front-end applications using Angular and MySQL for dynamic and responsive interfaces.
 - **Participated** in code reviews, testing, and documentation to ensure high-quality deliverables.
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SELECTED PROJECTS

- **Resume Analysis Hub AI-Powered Resume & JD Matching Tool**
github.com/ahmed2402/Resume-Analysis-Hub.git
 - **Built** an AI-powered tool using NLP techniques to evaluate how well a resume matches a given job description, with a **98%** accuracy rate.
 - **Integrated** Gemini API to generate synthetic resumes and job descriptions, and provide insights to improve resume scores.
 - **Enabled** users to upload resumes and JDs in text format for real-time comparison and scoring.
 - **Unit Consumption Predictor NCL - NED**
- **Developed** a time series forecasting model for the NCL HPPC building to predict electricity unit consumption for the upcoming month using historical data from the last **5** years.
- **Implemented** best practices in time series analysis, including trend/seasonality detection, data

preprocessing, and evaluation metrics for accuracy.

- ****CSIT-RAG Chatbot (In Development)****

CSIT - NED

- ****Designed**** and currently developing a departmental chatbot for the CSIT department to handle diverse queries related to admissions, examinations, and general departmental information.
- ****Implemented**** Retrieval-Augmented Generation (RAG) using LangChain to enable accurate and context-aware responses from structured and unstructured departmental data.
- ****Reduced**** the chatbot's average response time to ****34**** seconds, ensuring a smooth user experience.
- ****Loan Prediction System****

github.com/ahmed2402/Loan-Prediction.git

- ****Developed**** a machine learning model to predict loan approval status based on applicant details, with a ****92%**** accuracy rate.
 - ****Utilized**** classification algorithms like Logistic Regression, Random Forest, and XGBoost for high accuracy.
 - ****Built**** a user-friendly interface to input applicant data and display real-time predictions.
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CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals

2025

Artificial Intelligence (Machine Learning; Deep Learning; Communication)

NAVTCC

Certified Data Scientist

Peoples IT Program (PITP)

2025

SKILLS

- Frontend Development: Angular, HTML, CSS, JavaScript, TypeScript, Tailwind CSS
 - Backend Development: Flask, MySQL
 - Data Science & Machine Learning: Python, NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn, PyCaret, OpenCV, Streamlit, LangChain, HuggingFace, RAG
 - Tools & Platforms: Git, GitHub
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EDUCATION

Bachelor of Science in Computer Science and Information Technology

NED University

Karachi

3.93 CGPA