

## Ahmed Raza

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## SUMMARY

Motivated and detail-oriented AI Engineer with hands-on experience in machine learning, natural language processing, and generative AI. Proven ability to build and deploy real-world AI/ML projects, including sentiment analysis tools, predictive models, and Retrieval-Augmented Generation (RAG)-based chatbots. Skilled in modern web technologies like Angular, along with strong Python proficiency for data-driven applications. Adept at problem-solving, fast learning, and collaborating within cross-functional teams.

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## WORK EXPERIENCE

### AI/ML Intern, NCL - NED

June 2025 - August 2025, Karachi

- **Developed** multiple machine learning projects, including a Unit Consumption Predictor using Time Series Analysis, Customer Churn Prediction, and Loan Approval Predictor, resulting in **30%** improvement in prediction accuracy.
- **Built** and deployed NLP-based applications such as a Music Sentiment Analysis Tool and the Resume Analysis Hub, utilizing techniques like feature engineering, model evaluation, and performance optimization across various datasets.
- **Collaborated** with cross-functional teams to integrate models into user-friendly interfaces and dashboards, achieving **25%** increase in model adoption.
- **Applied** advanced forecasting models such as SARIMA and Holts Winter Exponential Smoothing to capture seasonal patterns and improve prediction performance, resulting in **20%** reduction in forecasting errors.

### Development Intern, CSIT Department - NED

January 2025 - Present, Karachi

- **Improved** user experience and optimized UI performance for internal platforms, resulting in **40%** reduction in average response time.
  - **Assisted** in front-end development using Angular and MySQL for dynamic and responsive interfaces, achieving **30%** increase in user engagement.
  - **Participated** in code reviews, testing, and documentation to ensure high-quality deliverables, resulting in **25%** reduction in defects.
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## SELECTED PROJECTS

- **Resume Analysis Hub AI-Powered Resume & JD Matching Tool**: Built an AI-powered tool using NLP techniques to evaluate how well a resume matches a given job description, achieving **80%** accuracy in resume-JD matching.
- **Unit Consumption Predictor**: 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, resulting in **15%** reduction in energy consumption.

- **CSIT-RAG Chatbot (In Development)**: Designed and currently developing a departmental chatbot for the CSIT department to handle diverse queries related to admissions, examinations, and general departmental information, utilizing techniques like Knowledge Graph integration and Retrieval-Augmented Generation (RAG).
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## CERTIFICATIONS

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- **Microsoft Certified: Azure AI Fundamentals**, 2025
  - **Certified Data Scientist, Peoples IT Program (PITP)**, 2025
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## SKILLS

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- 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