Ahmed Raza

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SUMMARY

Results-driven AI Engineer with hands-on experience in machine learning, natural language processing, and generative AI. Proven ability to design, develop, 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.

WORK EXPERIENCE

AI/ML Intern, NCL - NED, June 2025 - August 2025

- **ENGINEERED** multiple machine learning projects including a Unit Consumption Predictor using Time Series Analysis, Customer Churn Prediction, and Loan Approval Predictor with **99.5% accuracy**.
- **DEPLOYED** NLP-based applications such as a Music Sentiment Analysis Tool and the Resume Analysis Hub, achieving **95% accuracy** in sentiment analysis.
- **APPLIED** techniques like feature engineering, model evaluation, and performance optimization across various datasets, resulting in **40% improvement** in model performance.
- **COLLABORATED** with cross-functional teams to integrate models into user-friendly interfaces and dashboards, reducing **development time by 30%**.

Development Intern, CSIT Department - NED, January 2025 - Present

- **DEVELOPED** and **MAINTAINED** internal web applications using Angular and MySQL, improving **user experience by 25%**.
- **OPTIMIZED** UI performance for internal platforms, reducing **load time by 15%**.
- **PARTICIPATED** in code reviews, testing, and documentation to ensure **high-quality deliverables**, resulting in **zero defects**.

PROJECTS

ARIA Agentic Resume Intelligence Analyzer, 1st Place Winner NED DataQuest Hackathon 2025

- **DESIGNED** a multi-agent RAG-based AI career assistant integrating resume analysis, ATS checking, and interview preparation into one intelligent system.
- **DEVELOPED** an Agentic Resume Matcher pipeline using LangGraph that evaluates resumeJD similarity, generates insights, and produces tailored CVs dynamically, achieving **90% accuracy**.
- **CREATED** a Hybrid RAG-based Interview Prep Chatbot supporting contextual Q&A, follow-up handling, and domain-specific guidance, resulting in **85% user satisfaction**.

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, achieving **95% accuracy**.
- ● **IMPLEMENTED** best practices in time series analysis, including trend/seasonality detection, data preprocessing, and evaluation metrics for accuracy, resulting in **40% improvement** in model performance.

CSIT-RAG Chatbot (In Development), CSIT - NED
- ● **DESIGNED** and **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, achieving **90% accuracy**.
- ● **APPLIED** best practices in optimization, reducing the chatbots average response time to **3-4 seconds**, ensuring a smooth user experience.

CERTIFICATIONS

- ● **Microsoft Certified: Azure AI Fundamentals**, **2025**
- ● **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