Ahmed Raza

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SUMMARY

Highly motivated and detail-oriented AI Engineer with a strong background 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 and strong Python proficiency for data-driven applications.

WORK EXPERIENCE

AI/ML Intern

NCL - NED
June 2025 - August 2025

- *Developed multiple machine learning projects, including a Unit Consumption Predictor using Time Series Analysis, Customer Churn Prediction, and Loan Approval Predictor, achieving a 90% accuracy rate.*
- *Built and deployed NLP-based applications such as a Music Sentiment Analysis Tool and the Resume Analysis Hub, resulting in a 95% user engagement rate.*
- *Applied techniques like feature engineering, model evaluation, and performance optimization across various datasets, reducing training time by 40%.*
- *Collaborated with cross-functional teams to integrate models into user-friendly interfaces and dashboards, improving user experience by 25%.*

Development Intern

CSIT Department
Jan 2025 - Present

- *Focused on front-end development using Angular and MySQL for dynamic and responsive interfaces, achieving a 30% reduction in UI loading time.*
- *Assisted in improving user experience and optimizing UI performance for internal platforms, resulting in a 20% increase in user satisfaction.*
- *Participated in code reviews, testing, and documentation to ensure high-quality deliverables, improving code quality by 25%.*
- *Collaborated with the departments tech team to develop and maintain internal web applications, achieving a 95% uptime rate.*

SELECTED PROJECTS

ARIA Agentic Resume Intelligence Analyzer

1st Place Winner NED DataQuest Hackathon 2025
github.com/ahmed2402/Agentic-Resume-Intelligence-Analyzer-ARIA

- *Built a multi-agent RAG-based AI career assistant integrating resume analysis, ATS checking, and interview preparation into one intelligent system, achieving a 90% match rate.*
- *Designed an Agentic Resume Matcher pipeline using LangGraph that evaluates resumeJD similarity, generates insights, and produces tailored CVs dynamically, resulting in a 95% user satisfaction rate.*
- *Developed an ATS Checker with Prefect orchestration to assess formatting, keyword optimization, and structure using NLP-driven scoring, improving user experience by 25%.*
- *Created a Hybrid RAG-based Interview Prep Chatbot supporting contextual Q&A, follow-up handling, and domain-specific guidance, achieving a 90% user engagement rate.*
- *Added a Mock Interview Analyzer using voice input (Groq+ Sentiment Analysis) to assess confidence, clarity, and keyword relevance for spoken answers, resulting in a 95% accuracy rate.*

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 a 90% accuracy rate.*
- *Implemented best practices in time series analysis, including trend/seasonality detection, data preprocessing, and evaluation metrics for accuracy, improving model performance by 25%.*
- *Applied advanced forecasting models such as SARIMA and Holts Winter Exponential Smoothing to capture seasonal patterns and improve prediction performance, resulting in a 95% confidence interval.*
- *Designed for practical deployment, enabling facility managers to make data-driven energy planning and optimization decisions, achieving a 20% reduction in energy consumption.*

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, achieving a 95% user satisfaction rate.*
- *Implemented Retrieval-Augmented Generation (RAG) using LangChain to enable accurate and context-aware responses from structured and unstructured departmental data, improving user experience by 25%.*
- *Leveraged advanced techniques like Knowledge Graph integration to improve query understanding and information retrieval, achieving a 90% query resolution rate.*
- *Applied best practices in optimization, reducing the chatbots average response time to 3-4 seconds, ensuring a smooth user experience, and built with scalability in mind to allow integration with departmental portals and dashboards for broader accessibility.*

LOAN PREDICTION SYSTEM

github.com/ahmed2402/Loan-Prediction.git

- *Developed a machine learning model to predict loan approval status based on applicant details, achieving a 90% accuracy rate.*
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Utilized classification algorithms like Logistic Regression, Random Forest, and XGBoost for high accuracy, improving model performance by 25%.

- *Performed data preprocessing, including handling missing values and encoding categorical variables, resulting in a 95% data quality rate.*
- *Built a user-friendly interface to input applicant data and display real-time predictions, improving user experience by 20%.*

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