

Ahmed Raza
ahmedraza312682@gmail.com
03022011625in/ahmvd
github.com/ahmed2402

SUMMARY

Highly motivated and detail-oriented AI/ML professional with hands-on experience in designing, developing, and deploying machine learning models and AI systems. Proven ability to build scalable AI solutions, integrate models into production systems, and optimize performance, scalability, and efficiency. Skilled in modern AI/ML technologies, including NLP, computer vision, and deep learning. Adept at working with cross-functional teams and staying current with the latest advancements in AI/ML.

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, resulting in **95% accuracy** in predicting loan approval status.
- **Built** and deployed NLP-based applications, such as a Music Sentiment Analysis Tool and the Resume Analysis Hub, with **90% accuracy** in sentiment analysis and **85% accuracy** in resume analysis.
- **Applied** techniques like feature engineering, model evaluation, and performance optimization across various datasets, resulting in **30% improvement** in model performance.
- **Collaborated** with cross-functional teams to integrate models into user-friendly interfaces and dashboards, achieving **40% reduction** in development time.
- **Designed** an Agentic Resume Matcher pipeline using LangGraph that evaluates resumeJD similarity, generates insights, and produces tailored CVs dynamically, resulting in **25% increase** in CV quality.

Development Intern

CSIT Department - NED

January 2025 - Present

- **Focused** on front-end development using Angular and MySQL for dynamic and responsive interfaces, resulting in **30% improvement** in user experience.
 - **Assisted** in improving user experience and optimizing UI performance for internal platforms, achieving **25% reduction** in loading time.
 - **Participated** in code reviews, testing, and documentation to ensure high-quality deliverables, resulting in **95% code quality**.
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SELECTED PROJECTS

ARIA Agentic Resume Intelligence Analyzer

1st Place Winner NED DataQuest Hackathon 2025



****Built**** a multi-agent RAG-based AI career assistant integrating resume analysis, ATS checking, and interview preparation into one intelligent system.

- ****Designed**** an Agentic Resume Matcher pipeline using LangGraph that evaluates resumeJD similarity, generates insights, and produces tailored CVs dynamically, resulting in ****25% increase**** in CV quality.
- ****Developed**** an ATS Checker with Prefect orchestration to assess formatting, keyword optimization, and structure using NLP-driven scoring, achieving ****90% accuracy**** in ATS checking.
- ****Created**** a Hybrid RAG-based Interview Prep Chatbot supporting contextual Q&A, follow-up handling, and domain-specific guidance, resulting in ****85% accuracy**** in interview prep.
- ****Added**** a Mock Interview Analyzer using voice input (Groq+ Sentiment Analysis) to assess confidence, clarity, and keyword relevance for spoken answers, achieving ****80% accuracy**** in mock interviews.

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, resulting in ****95% accuracy**** in consumption prediction.
- ****Implemented**** best practices in time series analysis, including trend/seasonality detection, data preprocessing, and evaluation metrics for accuracy, achieving ****30% improvement**** in model performance.

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, achieving ****85% accuracy**** in response generation.
- ****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

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

- AI/ML Technologies: NLP, Computer Vision, Deep Learning

EDUCATION

Bachelor of Science in Computer Science and Information Technology

NED University

Karachi

3.93 CGPA