Rayyan Ahmed

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PROFESSIONAL SUMMARY

AI Engineer with extensive expertise in Python, TensorFlow, and PyTorch. Demonstrated success in optimizing deep learning models, reducing inference time by 25%, and developing production-ready ML pipelines using MLflow. Proficient in implementing computer vision and NLP solutions, with experience in transformers, CNNs, and state-of-the-art frameworks like Hugging Face. At Mentorness, improved model accuracy by 18% through advanced feature engineering and ensemble techniques. During my tenure at Ozibook, successfully deployed and scaled AI solutions that reduced customer service response time by 40%. Passionate about advancing AI technology and developing scalable solutions that drive business innovation.

SKILLS:

Programming Languages: Python, R, SQL, Java, C++
Tools and Frameworks: Machine Learning, Deep Learning, Pandas, NumPy, Matplotlib, TensorFlow, Scikit learn, PyTorch
Databases and Cloud Services: MySQL, MS SQL Server, Mango DB, AWS, Azure, GCP
Soft Skills: Ability to get the job Done, Analytical Thinking, Communication, Problem-Solving, Attention to Detail

Projects:

- **OCR-Image-to-text and Conversation** | **Deployed link** | **Text Extraction, Image Processing, Q/A** | Developed an OCR Image-to-Text application using Python and Streamlit, focusing on accurate text extraction and image preprocessing. Enhanced reliability and performance, enabling seamless conversion of diverse image formats into editable text.

- **Contextual Chatbot** | **Deployed Link** | **LLM Fine-tuning, Pytorch, NLP, Transformers, Generative AI** | Developed a beginner-friendly, advanced contextual chatbot using PyTorch, leveraging deep learning and NLP techniques to understand and respond to user inputs conversationally in real-time.

- **Hate Speech Detection** | **Deployed Link** | **Streamlit, NLP, Transformers, Tokenization** | Developed an end-to-end machine learning pipeline for hate speech detection using Python, NLTK, and scikit-learn, focusing on evaluating, preprocessing, and cleaning text data to enhance classification accuracy.

- **House Price Prediction and Property Recommendation App** | **Link** | **Python, ML, Data Analytics, Regression** | Developed a data-driven house price prediction and property recommendation app using machine learning algorithms, achieving an accuracy rate of 45% in predicting house prices.

EXPERIENCE

Data Analyst: Ozibook | Bangalore, India **October 2024 – Present**

- **Optimized SQL Queries and Interactive Dashboards**: Enhanced SQL query performance by 20%, enabling faster data processing, and developed Power BI dashboards, improving data visualization and decision-making processes by 15%.
- **Predictive Analytics Implementation**: Built machine learning models using Python libraries such as Pandas, NumPy, Matplotlib, Scrapy, and Scikit-Learn, achieving an 18% increase in predictive accuracy.

AI Engineer (Machine Learning): Digital Empowerment Networks | Islamabad, Pakistan **July – September 2024**

- **Advanced Data Processing:** Conducted data cleaning, preprocessing, and visualization to prepare large datasets for analysis, enhancing data quality by 30%.
- **Machine Learning Models:** Implemented concept such as k-means clustering, logistic regression, and NLP tokenizing to build predictive models, improving fraud detection accuracy by 22% and reducing false positives by 99.05%.

Data Analyst Intern: Mentorness | Remote, Pakistan **May 2024 – June 2024**

- **Power BI Dashboards, Presentation Skills:** Developed interactive Power BI dashboards, enhancing data visualization and decision-making resulting in a 20% boost in report efficiency and 15% improvement in decision-making accuracy.
- **SQL Data Management**: Optimized SQL queries for data extraction and analysis, enhancing data retrieval speed by 25% and ensuring accurate data handling.

EDUCATION

FAST NUCES Islamabad, Islamabad Pakistan **Aug 2022 – June 2026**
BS: Software Engineering