Rayyan Ahmed

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PROFESSIONAL SUMMARY

AI Engineer and Data Scientist with expertise in Python, RAG, MCP, and AI-Agents, specializing in scalable machine learning, computer vision, and NLP solutions. Proven track record of optimizing deep learning models and deploying production-grade pipelines using platforms like Hugging Face and transformer architectures. Enhanced model accuracy by 18% at Mentorness through feature engineering and ensemble methods, and reduced customer service response time by 40% at Ozibook by deploying AI-driven solutions. Currently driving automation initiatives at Nobility MBS, leveraging browser automation, Web Crawling, LLMs, and RAG pipelines to streamline medical billing processes, resulting in a 35% reduction in manual workload and a 20% improvement in billing accuracy.

SKILLS:

Programming Languages: Python, R, SQL, Java, C++
Tools and Frameworks: Machine Learning, Deep Learning, AI Agents, MCP, RAG, Fine-Tuning, TensorFlow, PyTorch, NLP
Databases and Cloud Services: Faiss, Vector Databases, 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 | **Computer Vision, 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.
- Chatbot Generative AI **| Lang chain, 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 Scientist: Nobility MBS | Islamabad, Pakistan **March 2025 – Present**

- Automated medical billing workflows using browser automation, **AI agents**, and **LLMs**, reducing manual processing by **35%** and boosting billing accuracy by **20%.**
- Designed and deployed **RAG pipelines** and **MCP-driven** AI solutions to deliver real-time insights, accelerating billing operations and improving decision-making efficiency by **30%.**

Data Analyst: Ozibook Tech Solutions | Remote, Bangalore, India **October 2024 – January 2025**

- **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%.

EDUCATION

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