Maryam Zubair

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EDUCATION

Master of Science (M.S.), Computer Science, GPA: 3.7
San Francisco Bay University, Fremont CA, September 2022 – April 2024

Bachelor of Science (B.S.), Electrical Telecommunications Engineering
COMSATS Institute of Information Technology, Pakistan, October 2012 – May 2016

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL
Frameworks: Express, Flask, LangChain
Libraries: scikit-learn, Pandas, NumPy
Machine Learning & Artificial Intelligence: Experienced training machine learning models, developing AI-powered applications utilizing OpenAI APIs, and designing efficient pipelines.
Data Analysis and Visualization: Proficient in creating dashboards using Power BI

PROJECTS

AI-powered Chatbot *(Flask, OpenAI API, LangChain, ChromaDB)*
- Designed fully functional **multilingual** chat application responsible to assist prospective students and staff by providing real-time interactive communication.
- Utilized **chromaDB** for retrieving accurate responses, integrated Google-Text-to-Speech **(GTTS)** and **Whisper** for seamless voice input/output and deployed chatbot using **Flask**.
- Subsequently achieved 95% accuracy by **Fine-tuning** the RAG model to better align it with university's specific requirements.

Recommendation System *(Python, Flask)*
- Developed movie recommender system using Python. The application features a Flask web interface, allowing users to receive movie recommendations by inputting their preferred titles.

Order Tracking Application *(Express, Node.js, RESTful API)*
- Developed **Express** application featuring **RESTful APIs** designed to enable users to track their orders using an external API provided by DHL.

E-LEARNING

- Advanced Learning Algorithms *by DeepLearning.AI & Stanford University*
- Supervised Machine Learning *by DeepLearning.AI & Stanford University*
- Unsupervised Learning, Recommenders, Reinforcement Learning *by DeepLearning.AI & Stanford University*
- ChatGPT Prompt Engineering *by DeepLearning.AI*
- LangChain for LLM Application Development *by DeepLearning.AI*

WORK EXPERIENCE

Pakistan Telecommunication Company Limited (PTCL) *– Assistant Manager Business Continuity (January 2021 to July 2022)*
- Oversaw company-wide data for Business Continuity, conducted risk assessments and Business Impact Analysis of critical technology platforms.

Pakistan Telecommunication Company Limited (PTCL) – *Intern Operations Management (July 2017 to August 2018)*
- Used PowerBI and other dashboard/visualization tool sets for data Analysis.

Khan Research Laboratories (KRL) - *Technical Intern (June 2014 to August 2014)*
- I designed single, double, and multilayered Circuit Boards, and gained hands-on experience working with Arduino.