Muhammad Usaid

COMPUTER SCIENTIST

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CAREER SUMMARY

Recent Computer Science graduate from FAST University, enthusiastic about entering the IT industry. Possesses foundational skills in Machine Learning and Web Development and is eager to apply them in real-world projects. Seeking entry-level opportunities to grow professionally and make meaningful contributions.

EDUCATION

National University of Computer and Emerging Sciences
Bachelor of Computer Science

Sep 2020 - June 2024
Lahore

PROFESSIONAL EXPERIENCE

Software Engineer / Devoin Labs   April 2024 - Present

- Trained and refined AI chatbot prompts for accurate Python and other coding language inquiries.
- Assisted in training AI models using Matplotlib, Seaborn, and Plotly for better data visualization.
- Learning and developing skills in the MERN stack (MongoDB, Express.js, React, Node.js) with projects.
- Contributing to the design and maintenance of the company's website during the probation period.

Machine Learning Intern / Ebryx   June 2023 - Sep 2023

- Improved office security with cybersecurity fundamentals and Python scripts for data collection.
- Developed machine learning and deep learning models for threat detection using **Scikit-learn, PyTorch, TensorFlow, and Keras**.
- Gained proficiency in data science libraries and analyzed Linux device data.

PROJECTS

Remote Online Notary System

- Creating RON app prototype with audio-visual sessions and audit-ready interaction recording using SERN (SQL, Express JS, React JS, Node JS) Stack.
- Implementing identity verification with Computer Vision and tamper-evident storage using ImmuDB.
- Ensuring document authenticity and integrity with digital signatures using asymmetric cryptography.

Customer Churn Analysis

- Created a strong machine learning model in Python to predict when customers might leave.
- Logistic Regression, a machine learning model is trained to predict the correct churn prediction.

Online E-commerce Store

- Made an e-commerce platform with user-friendly interfaces on the MERN Stack.
- Features functions like adding to cart, removing from cart, filtering, sorting, and searching for the products.

Rock-Paper-Scissors Hand Gesture Detection System

- AI-based game developed in Python using the machine learning libraries Keras and TensorFlow.
- Convolutional Neural Network, a deep learning model is trained on image dataset collected from Kaggle.

Anomaly Detection in Electrocardiogram (ECG) Signals

- LSTM autoencoders on ECG data detect anomalies by reconstructing normal heartbeats accurately.
- Efficiently identifies anomalies based on higher reconstruction errors.

TECHNICAL SKILLS

- **Programming Languages:** C/ C++, Python, Ruby
- **Web Technologies:** HTML, CSS, JavaScript, React, Node JS, Express JS, Firebase
- **Data Science Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, Keras
- **Database:** SQL Server, PostgreSQL, MongoDB
- **Tools and IDEs:** VS Code, Google Colab, Jupyter Notebook, Pycahrm, Visual Studio, Wireshark