Khalid Rehman

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Skills

Python, SQL, Streamlit, Data Analysis (Pandas, EDA), Data Visualization (Matplotlib, Seaborn)
Machine Learning (Scikit-Learn), Deep Learning (TensorFlow, PyTroch), NLP (NLTK, SpaCy)

Experience

Machine learning Engr | Bytewise   **June-September (2024)**
- Improved prediction accuracy and decision-making efficiency by developing and optimizing machine learning models, and conducting exploratory data analysis with Scikit-Learn, Numpy, and Pandas.
- Enhanced image classification and stakeholder engagement by implementing and fine-tuning Convolutional Neural Networks (CNN) and visualizing complex datasets using Matplotlib.

Machine learning Engr | Grow-Intern   **March-April (2024)**
- Generated actionable insights and supported data-driven decisions by conducting exploratory data analysis with Numpy and Pandas and visualizing complex datasets using Matplotlib.
- Enhanced prediction accuracy by developing and optimizing machine learning models using Scikit-Learn.

Machine learning Engr | Young-Intern   **January-February (2024)**
- Generated actionable insights and supported data-driven decisions by conducting exploratory data analysis with Numpy and Pandas and visualizing complex datasets using Matplotlib.
- Enhanced prediction accuracy by developing and optimizing machine learning models using Scikit-Learn.

Academic Projects

Face Mask Detection
- Developed and fine-tuned an AI-based Face Mask Detection system using CNNs with VGG16 architecture and Keras, achieving high classification accuracy.
- Enhanced model generalization and deployed a real-time detection system by preprocessing image datasets with data augmentation techniques, enabling live video stream analysis for public safety applications

CV Analysis & Ranking System
- Developed a machine learning model to analyze, rank, and evaluate CVs based on skills and experience, using Random Forest for classification and cosine similarity for score matching.
- Generated detailed ranking reports and integrated cosine similarity to compare CV skills with job requirements, discarding irrelevant CVs and providing options to print and download reports.

WhatsApp Chat Analyzer
- Extracted and visualized key insights from chat data using advanced analysis techniques, including Word Clouds, emoji analysis, and common words, to enhance interpretability and understanding of user activity.
- Analyzed WhatsApp chat data using a pre-trained model to extract insights such as total messages, media shared, active users, and busy timelines

Volunteer

Lead | GBSO Coding Club   *June (2023)-June (2024)*
- **Led a vibrant community of tech enthusiasts**, fostering innovation, skill development, and knowledge sharing through effective communication, mentorship, and teamwork.

Tech-Lead | Soft-Tech   *September (2023)-September (2024)*
- **Spearheaded a dynamic community of tech enthusiasts**, driving innovation, skill development, and knowledge sharing through strong communication, effective mentorship, and collaborative teamwork.

Education

Bs (IT) | University of Kotli, Ajk   *2020-2024*