MUHAMMAD UMER MANSOOR

MACHINE LEARNING ENGINEER

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SUMMARY

Recent graduate with a strong foundation in machine learning and data science. Proven ability to apply machine learning algorithms and techniques to solve real-world problems. Seeking an opportunity to gain hands-on experience in a machine learning engineering team and contribute to the development of innovative AI solutions.

SKILLS

- Strong problem-solving
- Analytical skills
- Interpersonal Skills
- Communication
- Meeting Deadlines
- Team Work
- Critical thinking
- Attention to detail

EXPERIENCE / PROJECTS

License Plate Detection and Recognition | Knowledge Streams | (YOLOv8, OpenCV, CNN)

DS & ML Trainee • Oct 2023 - Jan 2024

- *Implemented Yolo v8 models to detect vehicles and license plates, ensuring only relevant regions are processed further.*
- *Engineered an OpenCV pipeline to segment license plate characters for optimal recognition.*
- *Built a CNN recognition model that identified license plate characters, outperforming traditional approaches.*
- *Engineered an efficient pipeline from license plate detection to character segmentation and recognition, applying strong analytical skills.*

Duplicate Bug Report Detection and Classification | FYP @ VU | (NLTK, Spacy, Scikit-learn)

Undergraduate Student • Sep 2022 - Oct 2023

- *Preprocessed real-world bug report data by tokenizing, removing stopwords, and lemmatizing text for cleaner input and demonstrating NLP skills.*
- *Built a classifier using Naive Bayes, SVM, and Random Forest that identified duplicate bug reports with **82%** precision, allowing developers to prioritize unique issues.*
- *Recommended model improvements by analyzing misclassified examples, and demonstrating analytical abilities.*

Realtime Tweets Sentiment Analysis | Datathon Competition | (Tweepy, NLTK, Streamlit)

Datathon Participent • Sep 2022

- *Created a live Twitter sentiment analyzer app with Streamlit that determined tweet sentiment with **75%** accuracy, exercising programming abilities.*
- *Cleaned and preprocessed tweets using regex, NLTK, etc. to prepare data for model ingestion.*
- *Streamlined data workflow from tweet acquisition to preprocessing to sentiment prediction, exhibiting excellent project management skills.*

CORE SKILLS

Programming Languages: Python, C/C++
Developer Tools: Git, Linux
Frameworks: Scikit-learn, Keras, TensorFlow, PyTorch, Darknet
Databases: MySQL, Microsoft SQL Server, Oracle SQL
Cloud Computing: Azure, AWS, GCP

EDUCATION

Bachelor of Science in Computer Science, Artificial Intelligence | 3.40/4.0

Virtual University of Pakistan, Lahore • 2019 – 2023

CERTIFICATIONS

Google Data Analytics
Coursera • 2023

Google Advanced Data Analytics
Coursera • 2023