MUHAMMAD UMAIR

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DETAILS

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LINKS

Github

Linked In

SKILLS

python

Tensorflow

PtTorch

Supervised Learning

Unsupervised Learning

Deep Learning

Natural Language Processing (NLP)

Data Preprocessing

Feature engineering

Model Evaluation

Test Driven Development

Behavior-Driven Development

Data Analysis

Data Visulization

Data Anootations

Problem solving

Mentorship

consistency

WORK SUMMARY

Ambitious AI/ML engineer with over a year of experience in developing and executing advanced ML models and AI systems. Proficient in data analysis, pattern recognition, and algorithm development, with a strong background in Python.. Proven ability to enhance business strategies and collaborate with cross-functional teams to deliver impact solutions

EMPLOYMENT HISTORY

Machine Learning Intern at SensViz, Lahore
July 2023 — January 2024

Gained hands-on experience in computer vision and time series forecasting projects, employing deep learning techniques to solve complex business problems. Collaborated with teams to understand requirements and deliver data-driven PyTorch solutions. Managed end-to-end data handling, from manipulation to visualization, providing actionable insights using TensorFlow. Also worked on data annotation.

EDUCATION

BSCS, Virtual University of Pakistan, Lahore
December 2020 — January 2025

- Gained a solid understanding of computer science principles, including software development, algorithms, and data structures.
- Engaged in various projects applying machine learning techniques to real-world problems, such as a final year project on image classification. \
- Participated in coding competitions and hackathons, showcasing problem-solving skills and teamwork abilities.

⭐ FINAL YEAR PROJECT

Fruit Classification

Fresh or Rotten Fruit classification

Create a desktop application that perform following Application:

- User Login System: Implement a secure login system for user authentication.
- Image Processing: Allow users to upload an image for processing, including:
- Cropping the image.
- Resizing the image.
- Detecting the type of fruit in the image and determining whether it is fresh or rotten.

Tools and Technologies:

- **Open CV:** For image resizing and feature extraction.
- **TensorFlow/Keras**: For building and deploying a Convolutional Neural Network (CNN) for fruit detection.
- **Matplotlib:** For visualizing image processing results.
- **NumPy:** For numerical operations and data manipulation.
- **Tkinter:** for UI