FAWAZ AHMED DAR

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Technical Skills

Machine Learning, Deep Learning, Python, Computer Vision, NLP, GStreamer, TensorFlow, OpenCV, Model Optimization, Data Preprocessing, Algorithms, Software Engineering, Git, Cloud Computing, Data Structures, PyTorch, Linux, C++, C SQL, MySQL, PHP, React, Node, FLASK, Django, Kubernetes, docker, git, unet++, yolo, computer vision, image processing.

Experience

Revive Medical Technologies   **March 2023 – April 2024**
Machine Learning Engineer   Islamabad, Pakistan

- Led a cross-functional team of software developers in the Software Department, ensuring the seamless execution and timely delivery of AI-driven healthcare projects, achieving a 20% improvement in operational efficiency and alignment with business objectives.
- Enhanced pulmonary fibrosis progression predictions using Quantile Regression and EfficientNet-B5, increasing model accuracy from 69% to 73%, contributing to more accurate disease progression forecasting.
- Spearheaded the development of AI-powered portals for doctors and patients, incorporating user-centric designs and machine learning models to streamline healthcare management, resulting in a 30% increase in user engagement and a 25% improvement in patient communication satisfaction.

DTools Incorporation   **April 2024 – December 2024**
Python AI Developer   Islamabad, Pakistan

- Improvised AI-powered chatbots and systems including a mental health support bot and an email content calendar analyzer, improving user engagement by 30% and reducing scheduling time by 25%.
- Built a face recognition system and implemented image analysis techniques for glitch detection and security, increasing system reliability by 20% and enhancing model accuracy by 10%.
- Created predictive models and dashboards for healthcare and geographical data, optimizing decision-making processes and improving user interaction by 40%.

IBM   **September 2022 – December 2022**
Technical Support Professional   Islamabad, Pakistan

- Supported and deployed high-performance, scalable Java applications, driving client satisfaction and meeting business requirements, contributing to a 15% increase in application efficiency.
- Leveraged advanced Java frameworks and technologies to deliver robust solutions, improving system performance by 20% through optimized code and architecture.
- Gained hands-on experience with Siebel Software, enhancing CRM system functionality and supporting a 10% increase in customer engagement through improved automation and integration.

Personal Projects

Gaussian Implementation on Ultrasound Images: Python, Image Processing, Gaussian Models   **April 2024 - July 2024**

- Developed Gaussian-based models to enhance ultrasound image quality, improving edge detection and feature clarity, resulting in a 15% increase in diagnostic accuracy.
- Reduced noise interference in ultrasound images by 25%, ensuring clearer and more reliable diagnostics for medical professionals.

YOLO Model for Pedestrian and Vehicle Detection: Python, Deep Learning, YOLO   **August 2024 - September 2024**

- Deployed YOLOv4 deep learning model for real-time pedestrian and vehicle detection, achieving 82% accuracy in dynamic traffic environments.
- Optimized model performance, reducing false positives by 18% and maintaining 30 FPS for real-time processing on edge devices.

UNet++ for Road Elements Detection from Satellite Imagery: Python, Deep Learning, UNet++   **June 2023 - July 2023**

- Implemented UNet++ architecture to detect road elements from satellite imagery, improving detection accuracy by 30% over previous models.
- Orchestrated a model update pipeline that enabled the integration of diverse satellite datasets into urban planning operations, which resulted in a 35% increase in the accuracy of urban growth projections for future developments.

AI-TRAX: Pulmonary Fibrosis Progression Prediction: Python, Quantile Regression, EfficientNet-B5   **March 2023 - June 2023**

- Utilized Quantile Regression and EfficientNet-B5 for predicting pulmonary fibrosis progression, increasing model accuracy by 25%.
- Integrated a data pipeline that allows for continuous model training with new patient data, ensuring timely updates of prescription on patient portal and helps doctors.

Education

National University of Computer & Emerging Sciences   **August 2019 – June 2023**
Bachelor of Science in Computer Science   Islamabad, Pakistan

University of Ulster   **January 2025 – Present**
Master of Science in International Business with Data Analytics   Birmingham, United Kingdom

Certifications

Azure Fundamentals – **Microsoft**		**May - 2023**
Fundamentals for Istio – **Solo.io**		**May - 2023**