Fazeel Asghar, BS Information Technology
AI Engineer/Data Scientist/MLOps
LinkedIn: https://www.linkedin.com/in/fazeelasghar/
Portfolio (Projects): Link to Portfolio
Email: fasghar40@gmail.com
Contact: +92-3126690033
Github: https://github.com/Fazeel-AIML

PROFILE

AI Engineer (Data Scientist) with expertise in **Machine Learning, Deep Learning, Data Science, IoT, and MLOps**. Experienced in developing **real-time healthcare solutions, autonomous systems, and data-driven applications**. Worked on **edge computing-based medical projects**, optimizing IoT devices for improved healthcare accessibility. Strong background in **ML model development, scalable AI workflows, and automation**. Skilled in **building and deploying AI solutions using cloud platforms**. Passionate about **problem-solving and leveraging technology for real-world impact**.

EDUCATION, SKILLS AND CERTIFICATIONS

DEGREE

Bachelors Information Technology Faculty of Computing, The Islamia University of Bahawalpur.

SKILLS

Data Science | AI Engineering	Deep Learning Machine Learning Python(Pandas Matplotlib Seaborn Pytorch Tensorflow) NLP Transformers Computer Vision SQL Xampp server Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation, Docker CI /CD MLOPS
Frontend	CSS , HTML, Javascript
Cloud Computing	EC2 Machine, AWS(S3), ECS, Kubernetes, Linux, Amazon IVS, IAM, Databricks AutoML
Backend	Django
Version Control	Git, Github, Mlflow, DVC,Docker
Technical Tools	Tensorflow, Scikit-learn, Docker, MLFLOW, DVC, Kubernetes, Git, Github, ChatGPT
Coding and Databases	HTML, CSS, Python, MySQL, C++, MongoDB,
Project Management Methodologies.	Agile Scrum, Waterfall.
Soft Skills	Critical Thinking, Team Player, Communication Skills, Adaptability, Patience, Attention to Detail.

CERTIFICATIONS

Awarding Body	Certificates
DeepLearning.AI(Coursera)	Machine Learning Specialization – Andrew Ng
IBM	Data Visualization
IBM	Machine Learning with Python

EXPERIENCE

Safe-RH Lab IUB AUG 2023- JUL 2024

Junior AI Engineer (Student Contribution)

I contributed as a Junior AI Engineer at the Safe-RH Lab, a collaborative research initiative involving multiple universities. My work primarily focused on automation, real-time patient monitoring, and system optimization in medical domain.

Key Contributions:

- Assisted in the development of Edge Computing-based medical projects for real-time patient monitoring.
- Participated in testing and validation of Safe-RH-developed websites and IoT-based medical devices, ensuring accuracy and performance.
- Performed sensor calibration for medical devices such as temperature guns and glucometers to improve data reliability.
- Optimized data collection and processing pipelines for real-time edge computing systems, enhancing efficiency.
- Collaborated with international teams to improve healthcare accessibility and reliability through innovative AI-driven technologies.
- Conducted database testing (MySQL) and functional testing for automated financial systems, ensuring data integrity and system robustness.
- Led efforts in regression testing and bug verification, maintaining system stability and performance.

University of the West of Scotland JULY 2024-AUG 2024

RESEARCH INTERNEE

I participated in the Safe-RH Erasmus+ program, sponsored by the European Union, where I relocated to Scotland for one month and I contributed to research focused on smart healthcare solutions and autonomous mobility.

Key Contributions:

- Proposed Smart Wheelchair System integrating Object Detection and Vital Signs Monitoring using Python, TensorFlow, OpenCV, and Arduino IDE.
- Designed the object detection module using YOLO (You Only Look Once) and integrated it with wheelchair navigation to enable real-time obstacle avoidance.
- Developed a health monitoring system using IoT sensors to track vital signs such as heart rate and SpO2 levels.
- Implemented real-time data processing and analysis using Arduino microcontrollers, ensuring accurate health monitoring.

- Conducted testing and optimization in simulated environments, enhancing system performance and reliability.
- Collaborated with international research teams to advance healthcare accessibility through AI-driven solutions.