Faizan Afzal
Data Scientist / Data Analyst

(+92) 334-7747795
Rawalpindi, Pakistan
faizan.afzal013@gmail.com
Portfolio:
www.faizanafzal.github.io

Github: faizanafzal013
kaggle.com/faizanafzal
linkedin.com/in/faizan-afzal-02264a131/

A Data Scientist with extensive experience in solving real-world business problems leveraging data driven advanced analytic. Well versed with Python, Machine Learning, Deep Learning, Computer Vision Data Visualization (Power Bi) and SQL. Familiar with some Big-Data tool kits like Hadoop. Self-motivated and hardworking seeking an opportunity to work in a challenging environment to prove my skills and utilize my knowledge intelligence in the growth of the organization.

SKILLS

Tools and Languages	Power BI, Python, Data Studio, Big Query, QGIS, SQL, R, ArcGIS
Quantitative Research	Machine Learning, Deep Learning, Computer Vision, NLP
Communication	Urdu, English, Arabic

WORK EXPERIENCE

ASSOSIATE MACHINE LEARNING ENGINEER   Sep 22 – Present
iENGINEERING Corporation (Pvt.)   *Islamabad, Pakistan*
- Design, develop and maintain scalable code based on Computer Vision.
- Deploying lightweight models to Edge Devices
- Building AI applications with robust architecture which are scalable as per project requirements.
- Implementing deep learning algorithms.
- Train object detection, image segmentation, and classification models.
- Write Python scripts as per project requirements.
- Manage and build a motivated data annotation team.
- Created and managed all the database infrastructure
- Designed and developed data download portal for shapefiles, KML
- Created data integration component to import data from non-image formats to GIS imaging application without loss of data or image quality during transit and conversion.
- Designed, developed, and implemented ESRI ArcGIS geodatabase.

Business Intelligence Analyst   Apr 22 – Sep 22
Kohinoor Textile Mills Limited   *Islamabad, Pakistan*
- Utilize company resources to curate data
- Analyze data for market trends and patterns
- Generate weekly and monthly reports with market trends past and present
- Design new data collection models to better collect information
- Coordinate with IT department to implement new models
- Perform data profiling to identify anomalies
- Develop protocol on how to best filter and variance
- Ensure subordinate staff is well informed and on-task
- Develop processes and tools to monitor and analyze model performance and data accuracy
- Implementing Automation system regarding item code generation.

Front End Developer   Mar 20 - Sep 20
4NDS NETWORKS   *Rawalpindi, Pakistan*
- Be responsible for maintaining, expanding, and scaling our site
- Writing well designed, testable, efficient code by using best software development practices.
- Integrating data from various back-end services and databases

PROJECTS

Anonymizer
Anonymization of faces and license plates has become a global requirement. With regulations from the European GDPR, Californian CCPA, Chinese CSL and Japanese APPI, autonomous vehicles need to be able to collect street scene data globally with all the critical personal information automatically removed. UAI Anonymizer, our AI-powered anonymization tool, ensures your data is compliant by blurring faces and number plates in a fully automated fashion.
LINK: https://faizanafzal.github.io/

Retro-reflectivity

Traffic signs are essential for the safe and efficient movement of vehicles through the transportation network. Poor sign visibility can lead to accidents. One of the key properties used to measure the visibility of a traffic sign is retro-reflection, which indicates how much light a traffic sign reflects back to the driver. The retro-reflection of the traffic sign degrades over time until it reaches a point where the traffic sign has to be changed or repaired. Predicting Traffic Sign Retro-Reflectivity Degradation Using Computer Vision algorithm.
LINK: https://faizanafzal.github.io/

Potholes Detection
Successfully trained a YOLOv8 based machine learning model for pothole detection on road images and videos, demonstrating expertise in computer vision and deep learning. Utilized the model to improve road safety and infrastructure maintenance
LINK: https://faizanafzal.github.io/

Develop Lane Marking Model
Developed and trained a Mask R-CNN based instance segmentation model using Mask2Former for detecting different types of lane markings in road images and videos. Demonstrated proficiency in deep learning, computer vision, and instance segmentation techniques for improving road safety and autonomous vehicle navigation.
LINK: https://faizanafzal.github.io/

Analysis Dashboard
Experience as a Business Intelligence Analyst utilizing Power BI to perform in-depth analysis and visualizations on company data. Successfully transformed raw data into actionable insights, improving decision making and driving business growth. Demonstrated expertise in data analysis and visualization, delivering effective reporting solutions to stakeholders.
LINK: https://github.com/faizanafzal013/Power-Bi-Dashboards

EDUCATION

Master of Science in Data Science, *Bahria University, Islamabad*	MAR 2022
Bachelor of Science of Computer Science, *PMAS Arid Agriculture, Rawalpindi*	FEB 2020

CERTIFICATIONS

Data Analytics By Robin Hunt	LinkedIN
Data, Data, Everywhere!	Google
Learning Data Analytics	Coursera
SQL Data Reporting and Analysis	Coursera
GDG Flutter Workshop 20	NIC.
Semi Finalist Mountain Arena	E-Gaming
GIS Basics - Ersi	Coursera