

Anas Muhammad

DATA SCIENTIST

Vancouver, Canada

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Junior data scientist with experience developing machine learning and data-driven solutions through Python, TensorFlow and Microsoft Azure for image recognition, anomalous fault detection and trouble ticket automation.

Work Experience

Data Scientist

Dubai, United Arab Emirates

ETISALAT

July 2018 - July 2019

Largest telecommunication provider in the United Arab Emirates with over 41 billion USD market capitalization.

- Developed Autoencoders for Anomaly Detection after extensive data mining and wrangling to detect severe network faults (0.02% of raw fault alarms).
- Developed next best team assignment prediction model with 80% accuracy to automate trouble ticket resolution using Decision Trees, XGBoost and Random Forests.
- Used NLP techniques and Support Vector Machines to classify severity of technical complains of free text data type, eliminating manual classification process of complaints.
- Deduced suitable manual trouble tickets to be automated after data wrangling and data mining thus improving automation KPI by 30%.
- Developed fault type, root cause, and closure code prediction models with 85% accuracy to automate trouble ticket closures using Decision Trees, XGBoost and Random Forests.
- Delivered instructor based training to upskill various levels of engineers on Data Science and AI.

Machine Learning and Robotics Researcher

Sharjah, United Arab Emirates

AMERICAN UNIVERSITY OF SHARJAH

July 2018 - February 2019

Ranked number one university in the world in terms of cultural diversity as per Times Higher Education.

- Published a research paper on deep learning based autonomous high voltage line inspection drone project.
- Developed a project involving deep learning with Keras and feature extraction to develop a dataset of 2,000 images for a particular facial expression action unit.
- Extracted LBP, HOG and raw features for emotion recognition through neural networks, XGBoost and Support Vector Machines.

Education

Master of Data Science

Vancouver, Canada

UNIVERSITY OF BRITISH COLUMBIA

August 2019 - Exp. June - 2020

- A 10 month accelerated program to equip students with skills necessary to work as professional data scientists.

BSc. Electrical Engineering

Sharjah, United Arab Emirates

AMERICAN UNIVERSITY OF SHARJAH

2013 - 2017

- GPA: 3.55/4.0
- Scholarships: Dean's List, Chancellor's List and Merit Scholarship.

Skills

Programming	Python, R, C, Matlab, 𐤀𐤃𐤅𐤃
Data Science	Microsoft Azure, Data Analysis, Data Wrangling, Data Cleaning, Data Mining, Feature Engineering, NLP
Machine Learning	Classification Models, Regression Models, Time Series Models, Validation, Feature Selection, TensorFlow, Keras
Visualization	altair, matplotlib, seaborn, dash, plotly, cufflinks, ggplot, QlikView, Power BI
Miscellaneous	MySQL, PostgreSQL, Hive, MongoDB, Docker, Git, Version Control, Make

Publication

Robot 2019 - Fourth Iberian Robotics Conference

FEUP, Portugal

FIRST AUTHOR OF: "AUTONOMOUS DRONE-BASED POWERLINE INSULATOR INSPECTION VIA DEEP LEARNING" - LINK

Nov. 2019

- Co-developed a drone to autonomously inspect and fly over modeled high voltage lines to aid in human safety and reduce maintenance cost by 70-80%.