MOHAMMAD ATWANY

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EDUCATION

Mohamed Bin Zayed University of Artificial Intelligence, UAE January 2021 - Present
Research-based M.Sc. in Machine Learning **CGPA:** 4.00/4.00
Scholarship: Full-scholarship

University of Sharjah, UAE September 2015 - June 2019
B.Sc. in Mechanical Engineering **CGPA:** 3.99/4.00
Scholarship: Full-scholarship

EXPERIENCE

Machine Learning Trainee at Emaar Properties (The Dubai Mall and Burj Khalifa), UAE September 2019 - September 2020

- Developed predictive models using Python (Pytorch) for maintenance regimes and asset lifecycle achieving yearly savings of upwards of 15%.
- Consolidation of high-end mall clients facilities by demand forecasting using ARIMA/SARIMAX models with python based Pytorch framework implementation on real time data.

Operations Intern at Emaar Malls (The Dubai Mall), UAE June 2018 - September 2018

- Visualise data by creating dashboards using Power BI and SQL for the mall maintenance consolidation platform for higher management and data collection for predictive maintenance machine learning models.
- Conducting pre-opening inspections of MEP assets on apparel, high-end apparel and F&B outlets to ensure compliance with local and global standards in the Dubai Mall.

Process Control Intern at Sharjah National Oil (SNOC), UAE July 2017 - September 2017

- Aid with the control system consolidation for sensor data needed for inspection, repair and alteration of piping per API 570 using integrated SCADA system.

TECH STACK

Python - SQL - Tensorflow - Pytorch - Matlab - PowerBI - SolidWorks - AWS

PUBLICATIONS & PROJECTS

Deep Learning Techniques For Diabetic Retinopathy Classification: A Survey

- Main author of this paper, submitted to IEEE Access journal for publication. Covered the most prominent deep learning techniques including supervised and self supervised that cover the area of Diabetic Retinopathy classification.

Cross-data Generalisation for Diabetic Retinopathy Classification

- Main author of this ongoing project aiming to generalise deep learning models for Diabetic Retinopathy classification from different distribution with a vision for full deployment in the healthcare sector. On course to be submitted to MICCAI 2022.

Stack Effect Utilisation in High-rise Buildings using Temporal Transformers

- Co-project contributor for which estimated pressure values using temporal transformers were used to predict the amount of savings for 4 different tower heights using natural ventilation.

AWARDS & ACHIEVEMENTS

Young Future Energy Program

· Project Power-bag in Brazil 2019 as part of Masdar Institute of Technology (First Place).

Engineering Colleges Honorary Achiever Award

· Awarded for achieving the highest scored CGPA in the Mechanical Engineering Department and amongst other engineering disciplines in 2019 (First Place).

Facebook AI Camp Team

· Selected as part of 50 youth developers as part of the global Facebook AI camp.