SHAIMAA KOUKA

MACHINE LEARNING ENGINEER





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United Arab Emirates









SKILLS

ML & DL

• Matlab, Tensorflow, Keras, Scikit-Learn, PySpark, OpenCV, Pandas, Numpy, cuML, CuPY, cuDF, cuDNN, LSTM-cuDNN

Business Intelligence

• Microsoft PowerBI, Tableau, SQL, Python, R , Streamlit, folium, Plotly

Coding Languages

• Python, JS, Java, C/C++, Bash

Web Development

• HTML, CSS, JS, MongoDB, React, Node.JS, Bootstrap, JQuery, Streamlit, MUI

Deployment

· GIT, GitHub, Docker, Netlify, Heroku

EDUCATION

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE

Ajman University - CGPA: 3.86

2021- present

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Ajman University- CGPA: 3.96

2016 - 2020

PROFILE

Determined and driven data scientist using deep learning and machine learning for industrial and academic purposes. I have a strong background in mathematics, combinatorial optimization, machine learning, deep learning, natural language processing, and engineering.

EXPERIENCE

GRADUATE RESEARCH ASSOCIATE

Aiman University

2021 - 2023

- Conduct Research papers on the topics of AI: such as deep learning, Evolutionary computations, Natural Language Processing, **Computer Vision**
- Build BI and AI tools for enterprises
- Organize and conduct workshops for MSc-AI students, AU faculty, **High School Students**
- Training MSc-Al students on applying Al using open-source libraries and as well as building it from scratch

TEACHING ASSISTANT

Ajman University

Jan 2020- March 2020

For introduction to programming with MATLAB course and Programming for Engineers. Responsibilities includes:

- Solve programming exercises (C++/Matlab)
- Conduct Laboratory sessions and assist students understanding programming concepts
- · Debug students' code
- · Contribute in writing assignments for the course

AWARDS

First Place in MERN Bootcamp

AstroLabs | March 2020

AU Students' Research Day

Ajman University | June 2020

Honor Student for 4 consecutive years Ajman University | 2017-2019

Honor Student for 3 consecutive years

Ajman Private School | 2012-2015

CERTIFICATES

NATURAL LANGUAGE

PROCESSING IN TENSORFLOW

Coursera

CONVOLUTIONAL NEURAL

NETWORKS IN TENSORFLOW

Coursera

TENSORFLOW FOR ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND DEEP LEARNING ${\mathscr O}$

Coursera

DATA SCIENCE BOOTCAMP

AstroLabs

MERN STACK BOOTCAMP ⊗

AstroLabs

LINEAR ALGEBRA FOR MACHINE LEARNING AND DATA SCIENCE &

Coursera

IELTS ACADEMIC

IELTS Official - overall band 7.0

PROJECTS

PUBLIC TRANSPORTATION USER SATISFACTION ANALYSIS TOOL

Ajman Statistics Center
Using Microsoft **PowerBI** and Python **TensorFlow**

- Bidirectional LSTM Model
- K-Nearest Neighbor (KNN)

PRO-TASK ⊗

 Time Management REACT Application with Voice Command Control using AI Voice Recognition Model

AI-BASED QSAR FOR ALZHEIMER'S DISEASE &

- AI-based Quantitative structure Activity Relationship study for Alzheimer's disease (Regression Problem)
- The models used: Random Forest, Gradient Boosted Regressor, K Nearest Neighbor, Support Vector Machine

WORKSHOPS

- Python Workshops
- · Data Preprocessing
- Virtual Voice Assistant Application
- Writing Research Papers using Overleaf-Latex
- Game Development

PUBLICATIONS

RECENT APPLICATIONS AND ADVANCES OF MIGRATING BIRDS OPTIMIZATION ⊗

Springer, DOI: https://doi.org/10.1007/s11831-023-09984-z

MACHINE LEARNING APPROACH FOR THE DESIGN OF AN ASSESSMENT OUTCOMES RECOMMENDATION SYSTEM $\mathscr D$

IEEE, DOI: https://doi.org/10.1109/ACIT53391.2021.9677281

A NEURAL-ASSESSMENT SYSTEM BASED ON EMIRATES (QFE) ∅

ACM, DOI: https://doi.org/10.1145/3393822.3432320