SHAIMAA KOUKA

MACHINE LEARNING ENGINEER



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Q United Arab Emirates







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.

SKILLS

ML & DL

Matlab, Tensorflow, Keras, Scikit-Learn,
 PySpark, OpenCV, Pandas, Numpy

Business Intelligence

• Microsoft PowerBI, Python, R

Coding Languages

• Python, JS, SQL, 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

2021- present

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Ajman University- CGPA: 3.96

2016 - 2020

EXPERIENCE

GRADUATE RESEARCH ASSOCIATE

Ajman University

2021 - Present

- 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

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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 © Coursera

DATA SCIENCE BOOTCAMP &

AstroLabs

MERN STACK BOOTCAMP ℰ

AstroLabs

LINEAR ALGEBRA FOR MACHINE LEARNING AND DATA

SCIENCE 8

Coursera

PROJECTS

PUBLIC TRANSPORTATION USER SATISFACTION ANALYSIS TOOL

Ajman Statistics and competitiveness Centre
Using Microsoft **PowerBI** and Python **TensorFlow**

WORKSHOPS

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

- 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 ℰ

- Al-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

PUBLICATIONS

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

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