

SHAIMAA KOUKA

M A C H I N E L E A R N I N G E N G I N E E R



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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, JS, C/C++, Bash

Web Development

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

Deployment

- GIT, GitHub, Docker, Netlify, Heroku

EXPERIENCE

SPONSERED GRADUATE RESEARCH ASSISTANT

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-AI students on applying AI using open-source libraries and as well as building it from scratch

LAB 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

EDUCATION

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE

Ajman University

2021- present

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Ajman University- CGPA :3.96

2016 - 2020

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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 
AstroLabs

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

PART OF SPEECH TAGGING (POS) FOR ARABIC LANGUAGE

- 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

PUBLICATIONS

MACHINE LEARNING APPROACH FOR THE DESIGN OF AN ASSESSMENT OUTCOMES RECOMMENDATION SYSTEM

DOI : 10.1109/ACIT53391.2021.9677281
2021 22nd International Arab Conference on Information
Technology (ACIT), IEEE