SHIMAA KOUKA

MACHINE LEARNING ENGINEER

CONTACT

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Shaimaa Kouka

SKILLS

ML & DL
Matlab, Tensorflow, Keras, Scikit-Learn, PySpark, OpenCV, Pandas, Numpy, cuML, CuPY, cuDF, cuDNN, LSTM-cuDNN, LLM

Business Intelligence
Microsoft PowerBI, Tableau , SQL , Python, R, Streamlit, folium, Plotly

Coding Languages
Python, JS, Java, C/C++, Bash

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

Deployment
GIT, GitHub, Docker, Netlify, Heroku

EDUCATION

MSc in Artificial Intelligence
Ajman University
2021-2023, CGPA : 3.86 out of 4.0

BSc in Computer Engineering
Ajman University
2016-2020, CGPA : 3.96 out of 4.0

Secondary School, Scientific Stream
Ajman Private School
2014-2015, CGPA : 96.2 out of 100

PROFILE

Determined and driven data scientist & and analyst using machine/deep learning for industrial and academic purposes. I have a solid foundation in mathematics, statistical analysis, data visualization and dashboard tools, SQL, programming, and machine/deep learning. Collaborating with stakeholders, on high-stakes projects with attention to detail.

WORK EXPERIENCE

Graduate Research Associate

Ajman University - Artificial Intelligence Research Center   Sep 2021 - Dec 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-AI students on applying AI using open-source libraries and as well as building it from scratch

Software Engineer Intern

Etisalat   Jun 2020 - Aug 2020

- Fundamentals of data science and machine learning
- Data analysis with R
- Task automation using Python
- Containerization with docker
- Version Control using Git, Github, Bitbucket
- Agile project management using Jira
- REST API
- Website development using CMS platforms
- IoT-based project for automatic room temperature control with Grafana monitoring system

Teaching Assistant

Ajman University   Jan 2020 - March 2020

- Taught the following courses: Introduction to Programming with MATLAB course (COE213), and Programming for Engineers (COE212).
- Responsibilities include:
  - Solve programming exercises (C++/Matlab)
  - Conduct Laboratory sessions and assist students in understanding programming concepts
  - Debug students' code
  - Contribute to writing assignments for the course

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AWARDS

First Place in MERN Bootcamp
AstroLabs | March 2020

Second Place in Data Science 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

CERTIFICATATIONS

Natural Language Processing in TensorFlow
Coursera - Deeplearning.AI

Convolutional Neural Networks in TensorFlow
Coursera - Deeplearning.AI

TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
Coursera - Deeplearning.AI

Data science bootcamp
AstroLabs

MERN stack bootcamp
AstroLabs

Linear Algebra for Machine Learning and Data Science
Coursera - Deeplearning.AI

IELTS Academic
IELTS Official - overall band 7.0

REFERENCES

Mohammed Azmi Al Betar
✉ m.albetar@ajman.ac.ae

Kamran Arshad
✉ k.arshad@ajman.ac.ae

PROJECTS

Public transportation user satisfaction Analysis Tool

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

Pro-task
Github Link

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

Part of speech tagging (POS) for arabic language
Github Link

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

AI-based QSAR for Alzheimer's disease
Github Link

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

A Neural-Assessment System Based on Emirates (QFE)
IEEE, DOI : https://doi.org/10.1145/3393822.3432320