Sara Abdelrazeq

Junior Data Scientist

Ambitious junior data scientist, with a strong background in Python, Data analysis and visualization, and Machine Learning. Very curious and energetic, practical, constantly learning and outreaching knowledge. Eager to obtain a challenging position in a company that will build upon my skills.

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EDUCATION

Data Science Course (360 Hours)
Coding Academy by Orange

11/2022 - 01/2023

Covered Topics

- Data Analysis and Visualization
- Machine Learning Models (KNN, SVM, Decision Trees, Random Forests, K-means)
- Dimensionality Reduction (PCA, LDA, ICA, Mutual Information, mRMR)
- Statistical Review
- Hypothesis Testing
- Evaluation Metrics (Confusion Matrix, Root Mean Square Error)

Introduction to Quantum Computing
The Coding School with IBM

01/2021 - 05/2021

Topics

- Quantum Gates
- Quantum Algorithms
- Qiskit

BSc Physics
The University of Jordan

09/2016 - 08/2020 *GPA: Very Good*

Graduation Seminar

- CP Symmetry Violation in B-Mesons

WORK EXPERIENCE

Physics Teacher
800 SAT CENTER

02/2022 - Present

Achievements/Tasks

- Teaching Physics for all international programs
- Pre-ACT Physics Courses for Middle School Students

Assessment Writer
Abwaab

02/2021 - 07/2022

Achievements/Tasks

- Physics Question-Bank Writer for Saudi Arabia, Iraq, Jordan, Pakistan

Physics Tutor
Abwaab

11/2021 - 07/2022

Achievements/Tasks

- Tutoring school students in physics from grades 6-12

SKILLS

Hypothesis Testing | Data Preprocessing and Cleaning | Data Analysis | Data Visualization | Feature Extraction | Machine Learning Models | Model Evaluation | Python | NumPy | Pandas | Scikit Learn | Matplotlib | Seaborn | Mathematica | Jira | Microsoft Office | Problem Solving | Content Writing | Team Leading | Presentation Skills

PROJECTS

Credit Score Optimization Project

- The graduation project for the Orange Data Science program, as part of a team
- The data set provided by the bank was firstly preprocessed and cleaned
- The project consisted of a set of recommendations deduced from the thorough analysis (using Numpy, Scikitlearn) and visualizations of data (using Matplotlib and Seaborn) we plotted frequency plots, KDE plots, hued count plots to infer correlations
- A predictive KNN model was built to predict the score of customers, the set of features for the model were selected through Select K-Best algorithm and the parameters were optimized by GridSearchCV and previous analysis until the model had the best evaluation metrics

CERTIFICATES

Toefl iBT
Score: 112/120

Programming for Everybody: Getting Started with Python and Python Data Structures
The University of Michigan on Coursera

Introduction to Python: Preparing for Machine Learning
Phi Science Institute

Introduction to Psychology
Phi Science Institute

LANGUAGES

English
Full Professional Proficiency

Arabic
Native or Bilingual Proficiency

German
Elementary Proficiency