YOUSSAF MENACER

DATA SCIENCE FELLOW

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 https://github.com/Youssaf-Menacer

SUMMARY

Highly motivated and detail-oriented data scientist transitioning from academia to the dynamic world of data science. Proficient in Python (Pandas, NumPy, Matplotlib, Seaborn) , with expertise in data analysis, visualization, and problem-solving. Continuously enhancing skills in machine learning, deep learning, and big data technologies. Committed to staying updated with the latest advancements in data science and seeking collaboration opportunities to learn and contribute.

EMPLOYMENT

University of Houston
Graduate Teaching Assistant · Sept. 2019 to Current · Houston, Texas
Proficient in teaching and instructing various mathematics courses including Calculus, Linear Algebra, Probability and Statistics, Multivariable Calculus, Differential Equations, Discrete Mathematics, Numerical Methods, and Mathematical Statistics.
Strong foundation in mathematical concepts relevant to data science.
Skilled in effectively communicating complex ideas and collaborating with colleagues and students.
Problem-solving and analytical thinking abilities to solve mathematical problems and apply concepts to real-world scenarios.
Experience in providing student support and mentoring.

Springboard
Data Science Fellow · Sept. 2022 to Current · Houston, Texas
I work with a team of experienced data scientists on various projects, focusing on data collection, model development and evaluation, data visualization, and research.

FracGeo
Software Tester · Jan. 2017 to July 2019 · The Woodlands, Texas
I have played a critical role in the development process, ensuring that projects function precisely as intended. As part of this responsibility, I actively engage in comprehensive software testing, striving to uncover any potential flaws or weaknesses. By collaborating closely with software designers and project managers, I gain a deep understanding of the product's objectives, key features, and intended user base. This collaborative approach enables me to contribute to the design process and deliver faultless programs at every stage of development.

EDUCATION

University of Houston · Aug. 2019 to Current
Ph.D. Applied Mathematics
Masters Mathematics 2023

University of Tlemcen · Sept. 2011 to June 2016
Masters Applied Mathematics 2016
Bachelors Mathematics and Computer Science 2014

SKILLS

COMMUNICATION, TEAMWORK, PROGRAMMING, AND LEADERSHIP.:
PYTHON, KERAS, PYTORCH, TENSORFLOW.:
SQL, R, JAVA, JULIA, C++, AND MATLAB.:
TIME SERIES, BIG DATA AND HADOOP, SPARK, PYSPARK AND APACHE SPARK.:
DATA SCIENCE, DATA ANALYSIS, MACHINE LEARNING AND STATISTICS.:

PROJECTS

Consumer Behaviour Analysis of Amazon
July 2023 to July 2023
Our objective in this project is to build models to predict consumers' "Shopping Satisfaction" using the given features. The target variable has 5 values,
"Very Unsatisfied", "Unsatisfied", "Average", "Satisfied", and "Very Satisfied".

Reinforcement Learning in Prey-Predator Systems
Feb. 2023 to Current
In the context of my Ph.D. project, I am actively engaged in ongoing research where we are implementing reinforcement learning techniques, specifically utilizing the Q-learning algorithm and Monte Carlo simulations, to observe the impact of learning on the densities of agents.

Boston Housing
June 2023 to July 2023
The project involved working with the Boston Housing Dataset for regression analysis. With 506 samples and 13 feature variables, the goal was to predict house prices based on the given features. This experience provided valuable insights into data analysis, predictive modeling, and real-world data challenges.

Big Mountain's Ideal Ticket Price
Jan. 2023 to Feb. 2023
In this project, I utilized a ski resort ticket price model to gain insights into pricing strategies for Big Mountain's facilities and explored the impact of various resort parameters on pricing. This analysis allowed me to determine an ideal ticket price for Big Mountain and assess its responsiveness to different scenarios.

AWARDS

Youssaf Menacer · Kovalevskaya Grant
Jan. 2022
Recipient of the "International Congress of Mathematicians Grant" awarded by the American Mathematical Society for participation in the prestigious event held in St. Petersburg, Russia in 2022.

ACTIVITIES

Data Science Certification, Springboard · Student
Sept. 2023 to Aug. 2023
Data science student with a diverse skill set including proficiency in Python, R, SQL, and Java, as well as expertise in data manipulation, analysis, visualization, machine learning, and statistical techniques. Strong understanding of data ethics and the ability to communicate data insights effectively.

Deep Learning Certification, Neuromatch Academy · Student
July 2021 to July 2021
Acquired expertise in Communication, TensorFlow, Programming, Data Analytics, Machine Learning, Deep Learning, Reinforcement Learning, Data Analysis, and Computer Vision through the completion of the Neuromatch Deep Learning course.

Supervised Machine Learning: Regression and Classification, Stanford University. · Student
May 2022 to Aug. 2022
Completed the Stanford University course on Supervised Machine Learning, specializing in Regression and Classification, showcasing proficiency in Communication, TensorFlow, Programming, Data Analytics, Logistic Regression, Linear Regression, Supervised Learning, and Data Analysis.