Mohammed Alsheikh

Artificial Intelligence/Machine Learning/Data Science/Computer Science

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Education

University of Michigan-Flint   08/27/18 - CURRENT

Bachelor of Science, Major in Mathematics, Minor in Computer Science.

Expected Grad Date: 04/27/2021

- James B. Angell Scholar Award at the University of Michigan-Flint   2018, 2019
- University Honors at the University of Michigan-Flint   2018, 2019
- Dean's list at the University of Michigan-Flint   2018, 2019,2020

Work Experience

University of Michigan-Flint   10/11/20 - current

Research Assistant(Data Mining)

(UROP)Undergraduate Research Assistant:

I have had the privillege to be a research assistant in the field of data mining and work under the tutelage of Dr. Murali Mani(Professor of Computer Science, Dr. Halil Bisgin(Professor of Computer Science), and Dr. Sy Banerjee(Professor of Marketing). Our project involves the analysis of big data from safegraph https://www.safegraph.com/ that reports customers checking into different businesses.

University of Michigan-Flint   10/04/20 - 12/15/20

Publication

Department of Computer Science, University of Michigan-Flint:

I have also been given the opportunity to collaborate with Dr. Suleyman Uludag on a cyber summit and internet of things (IoT) research paper. We will have the honor of having this paper published in the IEEE magazine on December 15th 2020. We used LaTeX and my main focus was on current IoT trends. I was specifically focused on how Covid-19 led to an unexpected flood of devices on networks, which in turn led to a rise in IoT malware attacks.

University of Michigan-Flint   01/13/19 - 05/24/19

Tutor (Mathematics)

Taught Calculus as a tutor:

Being a tutor of calculus allowed me to hone valuable communication and interpersonal skills.

Coursework

- C++ Object-Oriented Programming
- Python
- Database Design(SQL)
- Linear Algebra
- Mathematical Statistics
- Mathematical Probability
- Unix
- Computer Networks(currently taking)
- Human Computer Interaction(currently taking)
- Software Engineering(currently taking)

Programming Languages

1. Python(Django) : Object-Oriented Programming, Machine Learning, Development of secure websites.
2. C++ : Object-Oriented Programming, Software Design.
3. SQL(Oracle) : End-to-End development of SQL applications, Submitting queries for the database to run.

Technical Skills

- Matplotlib: Data Visualization in Python.
- Scikit Learn: Machine Learning in Python, Model Evaluation, Data Preparation.
- Deep Learning: End-to-End Feature Engineering and Model Development.
- PyTorch: GPU Accelerated Model Development in Python, Custom Training Loops.
- Image Classification: Experience with Convolutional Neural Networks in Computer Vision.
- LaTeX: Experience with writing technical and scientific documents.
- Unix: Experience working with the Unix OS.
- TensorFlow: GPU accelerated model development in Python, transfer learning.
- Pandas: Python Data Analysis Library--Manipulating Tabular Data in Python.
- FastAI: Quick State-of-the-Art Model Development in Python
- NumPy: Linear Algebra in Python

Soft Skills

- Mathematically Minded: High aptitude for mental arithmetic and experience in using machine learning techniques to manipulate big datasets to identify anomalies and trends.
- Confident: The firm belief in my ability to exhibit a keen eye for details, meet life's challenges and succeed.
- Analytical: The ability to make decisions, problem-solve, analyze information, and show success in working creatively.
- Tenacious: The ability to work past obstacles and work well under pressure in a large and complex environment.
- Critical Thinking: The ability to generate or recognize ideas that may be useful in solving problems as well as finding other alternatives.
- Communication: The ability to convey clear and coherent points or tasks.
- Leadership: The ability to inspire others to increase productivity and efficiency.
- Team-Oriented: The ability to work well with others, contribute, and allow others to feel like their contributions are just as important.
- Adaptability: The means to adopt new skills and be open in response to variating circumstances in a workplace.

Language Skills

- Advanced level of reading, writing, and speaking in:
  - English(First language)
  - Arabic(Second language)

Clubs and Volunteering

- Secretary of the Sociology Club at the University of Michigan-Flint   2018
- Vibrant member of the chess club at the University of Michigan-Flint   2018-Current
- Earned first place in the annual chess competition at the University of Michigan-Flint   2020
- Volunteered for the Career Fair at the University of Michigan-Flint   2018, 2019
- Volunteered in charity work for Sudan.   2018, 2019
- Starter on the University of Michigan-Flint soccer team.   2019-Current
- Earned first place in the bi-annual intermural soccer competition at the University of Michigan-Flint 2019

Interests and Hobbies

- Artificial Intelligence/Machine Learning
- Statistical learning and Data Science
- Predictive Modelling
- Data Mining
- Classification
- Computer Vision
- Neural Networks
- Chess
- Mathematical modelling to predict stock market trends
- Poetry
- Soccer