

Contact

www.linkedin.com/in/mohamad-moussa (LinkedIn)

Top Skills

MLOps

Agile Development

Artificial Intelligence (AI)

Languages

English (Professional Working)

Arabic (Native or Bilingual)

Certifications

Fundamentals of Scalable Data Science

Applied AI with DeepLearning

Getting Started with Google Kubernetes Engine

DevOps for Data Scientists

Deploying Scalable Machine Learning for Data Science

Honors-Awards

American Express Chairman Award

Publications

Beyond RAID 6 --- an Efficient Systematic Code Protecting Against Multiple Errors, Erasures, and Silent Data Corruption

Patents

Method and system utilizing quintuple parity to provide fault tolerance

Mohamad Moussa, Ph.D.

Inventor | Senior Data and Applied Sciences & Machine Learning
Leader at Microsoft
United States

Summary

A seasoned analytics leader who could drive the vision and strategy for the organizations by generating Data Driven transformative Insights. Architecting descriptive, inquisitive, predictive, and prescriptive insights by integrating, synthesizing, merging, and transforming the machine learning models and visualization tools.

I hold a Ph.D. degree in Mathematics/Statistics with 14 years of combined experience in quantitative fields (industry, research, and academia), with a descent 8 years of combined experience in coding (industry, research). I have a deep theoretical understanding, but also the ability to develop any Machine learning or deep learning model.

Experience

Microsoft
Senior Data Scientist
2020 - Present (3 years)
United States

Microsoft Azure Cloud: portal.azure.com

University of Houston
Industry Advisory Board member
November 2022 - Present (6 months)

Provide support and advice in the development of Engineering Analytics Program

American Express
Senior Machine Learning Engineer (Lead Data Scientist)
2018 - April 2020 (2 years)
Phoenix, Arizona Area

Achievements:

- o Establishing and leading a center of excellence team (Machine Learning and Data Science) within GMST (Global Merchant Services - Technology) organization.
- o Mentoring, coaching, and hiring a team of junior data scientists, data engineers and software engineers.
- o Identifying and implementing critical deliverables in Machine Learning and Artificial Solutions.
- o Delivered a wide range of scalable and interpretable use cases, whose models are based on classification, regression, time series, graph analysis, recommender system and deep learning.
- o Staying up-to-date with cutting edge industry implementations and academic research in data science.
- o Working with product owners, data scientists and engineers to develop and advance analytics based products.

University of Arizona

3 years

Researcher - Data Science

2016 - 2018 (2 years)

Tucson, Arizona Area

Achievements:

Developing new data science algorithms and techniques in the following three domains: Dimension Reduction, Recommender systems, and Optical Character Recognition. <http://tripods.arizona.edu/>

Lecturer

2015 - 2016 (1 year)

Tucson, Arizona Area

Achievements:

Responsible for teaching full lecture courses with 35 students. This responsibility of teaching includes lecturing as a primary instructor, holding regular office hours, developing syllabi and assignments, writing and grading assignments and exams, and assign course grades.

My students' comments: <https://www.ratemyprofessors.com/ShowRatings.jsp?tid=2079340>

Courses Taught: Calculus 1,2,3 , statistics, pre-calculus, linear algebra,

The University of Texas at El Paso

Lecturer

2013 - 2015 (2 years)

Alworood

Analytics & Data Insights roles

August 2009 - July 2013 (4 years)

United Arab Emirates

Analytics & Data Insights

Education

University of Arizona

Doctor of Philosophy (Ph.D.), Applied Mathematics and Statistics

Harvard University

Certificate in Leadership Excellence

The University of Texas at El Paso

Master of Science (MS), Mathematics and Computer Science

Beirut Arab University

Bachelor's degree, Mathematics and Computer Science