ALIREZA ALIZADEGAN

DATA SCIENTIST

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EXPERIENCE

Research Associate | University of Michigan

SEP 2016 - SEP 2017, ANN ARBOR, MI, USA

- Modified and applied network algorithms using Python to improve productivity of large-scale manufacturing systems
- Improved model of a ball screw drive system using robust regression

Graduate Research Assistant | University of British Columbia

SEP 2014 - SEP 2016, VANCOUVER, BC

- Developed an algorithm that used motion sensor data to improve the precision of a mobile phone optical image stabilizer
- Gathered and cleaned frequency response data and fit a model to it using least squares algorithm

EDUCATION

BrainStation | Diploma Candidate, Data Science

University of British Columbia | M. Sc., Mechatronics

SEP 2014 - SEP 2016, VANCOUVER, BC

NSERC & ICICS Grant, Graduate Admission Award, Jaya-Jayant Prize

Sharif University of Technology | B. Sc., Mechanical & Aerospace Engineering

JAN 2009 - 2014, TEHRAN, IRAN

Undergraduate Scholarship, Dean's Honor Roll, Graduate Fellowship

PROJECTS

- Collaborated in a project comparing three machine learning algorithms on the Netflix Prize problem
- Identified handwritten digits in MNIST database using regularization and Newton's method
- Employed PCA on Yale Face Database to find the best graphical parameter distinguishing images
- Implemented naïve Bayes classifier to filter spam emails in Hewlett-Packard benchmark database
- Implemented k-means algorithm to compress a mandrill image by partitioning it into blocks
- Implemented stochastic subgradient method to rapidly distinguish neutrons from gamma rays

SKILLS

Python, R, SQL, Tableau, Power BI
Statistics, Machine Learning, Big Data

PROFILE

Curious about facts and patterns in the real world, I'm bringing master's research experience as well as advanced mathematical and programming skills honed in engineering to unravel insights from data and improve decision making

- 4 years of experience in application of data algorithms for engineering and automation

- Research-based master's at UBC with peer-reviewed articles in top-tier mathematical journals

- Demonstrated collaborative and organizational skills in fast pace environments
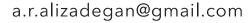
Alireza Alizadegan

MASc, Researcher, Mechatronics Engineer

I have a research-based master's degree from UBC with published peer-reviewed articles in top-tier mathematical journals. I have an extensive experience in root cause analysis of engineering systems and I wish to extend it to a wider business domain through data skills. I have done many presentations during my research experiences and I am excited to take it to the next level by learning how to tell stories with data.

Customer lifetime value prediction

This project presents interpretable analytics to identify and keep valuable customers in e-commerce

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