

Yasser Zeinali

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EDUCATION

University of Alberta, | Edmonton, AB

Doctorate of Philosophy – Business Analytics | 08/2024

GPA : 3.97

My current projects:

- The effect of Clustering on Demand Forecasting (Dr. Ivor Cribben)
- Wildfire Analytics (Resource allocation/prediction to suppress wildfires in Alberta) (Dr. Ilbin Lee)

Sharif University of Technology | Tehran, Tehran

Master of Science - Industrial Engineering | 07/2020

GPA : 4.0

- Master of Science – Industrial Engineering, Systems Optimization
- Thesis Title : Heart Disease Diagnosis Based on Heart Sounds Using Signal Processing and Machine Learning Algorithms, supervised by Professor Seyyed Taghi Akhavan Niaki.

Shahid Beheshti University | Tehran, Tehran

Bachelor of Science - Industrial Engineering - Safety | 07/2018

GPA : 3.82

- Bachelor of Science – Industrial Engineering, Industrial Safety
- Thesis Title : Fire Sprinkler System Design For a Drapery Warehouse

National Organization for Development of Exceptional Talent | Tehran, Tehran

High school Diploma, Mathematics & Physics | 08/2014

GPA : 4.0/4.0

RESEARCH INTERESTS

Machine Learning, Data and Business Analytics, Optimization

PUBLICATIONS & WORKING ARTICLES

- The Effect of Customer's Behavior on the Subscription Sales: An Insight into an Online eBook Platform. Seyyed Farid Hashemian, Yasser Zeinali, Negar Maleki, Manufacturing & Service Operations Management. "Under Review"
- Heart Sounds Classification using Machine Learning and Signal Processing, Yasser Zeinali, Seyyed Taghi Akhavan Niaki, (2022) Machine Learning with Applications
- A k-NN Method for Lung Cancer Prognosis with the Use of a Genetic algorithm for Feature Selection, Negar Maleki, Yasser Zeinali, Seyyed Taghi Akhavan Niaki, (2021) Expert Systems with Applications
- Bitcoin Price Prediction Based on Other Cryptocurrencies Using Machine Learning Algorithms and Time Series Analysis, Negar Maleki, Alireza Nikubin, Masood Rabbani, Yasser Zeinali, (2020) Scientia Iranica

PROGRAMMING & DATA SCIENCE SKILLS

- Python (Machine learning-Deep learning & Data Analysis & Optimization Packages)
- R (Machine learning-Deep learning & Data Analysis Packages)

- MATLAB (General Programming)
- SPSS
- GAMS

INDUSTRIAL SKILLS

- Programmable Logic Controllers (PLC)
- Industrial Ventilation System Designs
- Internet of Things (IoT) (Experience of working with Arduino & Raspberry Pi)
- PipeNet

PROJECTS

- Solving Multistage Stochastic Farmer Problem with Nested Decomposition Algorithm
- Data Driven Optimization Model for Concrete Ingredients
- Gold Price Forecasting using Time Series Models
- House Price Forecasting Using Artificial Neural Network and Gradient Boosting Regression (Winner of the Best Project Award in the industrial engineering department)
- Bike-Sharing Demand Prediction - Feature selection with Genetic Algorithm
- Market Basket Analysis for a Retail Store using Association Rule Mining
- Creating a Breast Cancer database with Openclinica for Milad Hospital in Iran
- Creating a Business Process for Emergency Department of a hospital with Bizagi Software
- Analyzing Amazon Reviews with Natural Language Processing and Machine Learning Algorithms
- Customer Segmentation using RFM Methodology for an Online Book /E-book Store
- Analyzing Marketing Campaigns in terms of Revenue
- Customer Churn Prediction
- Creating a Forecasting Application based on SLR with Seasonality Index using Excel Macro
- Creating a Heuristic Technique to Solve the Set Covering Problem with Capacity
- Solving a Vehicle Routing Problem with 140 Customers and 4 Depots using a Heuristic based on the Traveling Sales Person Problem Solution
- Passwords Strength Classification with Natural Language Processing and Machine Learning Algorithms
- Analyzing Chinese Postman Problem (CPP) Algorithm for Directed, Undirected and Mixed Form
- IoT Adoption for Elderlies, Analyzing the infrastructures and prerequisites

HONORS & AWARDS

- Nominated for the Izaak Walton Killam Memorial Scholarship at the Alberta School of Business (2022/ 2023)
- Nominated for the BMO financial group Scholarship (2022)
- Nominated for the Flight PS752 Memorial Graduate Scholarship (2022)
- Research grant “Advancement of scholarship” (EFF-SAS) (2021)

- Pool research scholarship (2021)
- Research grant from the School of Business (2020)
- Graduate fellowship at the Alberta School of Business (2020 - 2025)
- Ranked 20th amongst about 20000 participants in the national exam of Industrial Engineering (2018)

CERTIFICATES

- Data Scientist Full track, DataCamp,
- Fraud Detection in Python, DataCamp
- Introduction to Time Series Analysis, DataCamp
- Machine Learning for Finance in Python, DataCamp
- Machine Learning A_Z, Udemy
- Machine Learning in Healthcare
- Introduction to Financial Concepts using Python, DataCamp
- Network Analysis, DataCamp
- Supply Chain Analytics, DataCamp
- 6 Sigma, Yellow Belt, TUV NORD, Tehran, Iran
- Advanced Excel, Tehran Institute of Technology
- MATLAB, Tehran Institute of Technology
- Data Visualization in Tableau (Udemy)
- Simulation using Arena Software (Tihe Academy)