Hamid Nakhaei

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in hamid-nakhaei

Education

▶ **M.Sc. in Industrial Engineering - Macro Systems**   *2020 - 2023*
Sharif University of Technology (SUT), Tehran, Iran | GPA: 4/4
Thesis Topic: *A Reinforcement Learning Approach for Dynamic Pricing (Case Study: Iran's Electrical Power Grid)*
Supervisor: *Dr. Shahram Shadrokh*

▶ **M.Sc. in Mechanical Engineering - Applied Design**   *2017 - 2020*
SUT, Tehran, Iran | GPA: 3.2/4
Thesis Topic: *Mechanical Design and Fabrication of a Parallel Hybrid Vehicle Powertrain Simulator*
Supervisor: *Prof. Mahmoud Saadat Foumani*

▶ **B.Sc. in Mechanical Engineering**   *2013 - 2017*
SUT, Tehran, Iran | GPA: 3.4/4
Thesis Topic: *Systematic Design of Oilfield Cementing Trucks*
Supervisor: *Dr. Jamal Arghavani*

Selected Courses

Data-driven Modelling and Decision Making: 20/20
Dynamic Systems: 19.5/20
Stochastic Programming: 19.5/20
Operations Research 2: 18.7/20
Forecasting and Time Series Analysis: 18.6/20

Honors & Awards

Ranked 1st among the graduating class of 2022, Industrial Engineering Department, SUT   *2022*
Ranked 4th in the University Entrance Exam for master's degree in Industrial Engineering   *2020*

Research Interests

▶ **Statistical Analysis**
Time Series Analysis and Forecasting, Data-driven Decision Making, Stochastic Processes
▶ **Optimization under Uncertainty**
Stochastic Programming
▶ **Pricing and Revenue Management**
Dynamic Pricing

Experiences

Teaching Experience (TA)

Operations Research 2, Mohammad Modarres Yazdi	*Spring 2022, Fall 2022*
Theory of Probability and Its Applications, Seyed Taghi Akhavan Niaki	*Fall 2021, Spring 2022*
Data-driven Modelling and Decision Making, Dr. Nafiseh Sedghi	*Spring 2022*
Microeconomics 1, Mohammad Vesal	*Fall 2021*

Professional Experience ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

Sales Planning Analyst, Solico Group, Tehran, Iran   *Sep. 2022 - July 2023*
Executive Team Member, Sharif Entrepreneurship Center, Tehran, Iran   *Jan. 2016 - Dec. 2017*
Intern (Production Department), Iran Khodro Company, Tehran, Iran   *July 2015 - Sep. 2015*

Academic Projects

Financial fraud prediction using Decision Tree, Random Forest, and Logistic Regression
Programming language: R   *2021*

Electricity demand forecasting in Iran using Time Series methods
Programming language: Python   *2021*

Prediction of hotel booking cancellations using Machine Learning algorithms
Programming language: R   *2021*

Diabetes prediction using Naive Bayes, Random Forest, and Logistic Regression
Programming language: Python   *2020*

Building a Neural Network for prediction of the number of tourists visiting Iran
Programming language: MATLAB   *2019*

Skills

▶ **Computer Skills**
  ◇ **Programming Languages:** Python, R, MATLAB
  ◇ **Modelling:** Visual Paradigm, Visio, GAMS, CPLEX
  ◇ **Data Analysis:** PowerBI, Minitab, Microsoft Excel

▶ **Language Skills**
  ◇ **Persian:** Native
  ◇ **English:** Fluent
    TOEFL iBT: 102/120

Certificates

Workshops ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

Statistics in Data Science using Minitab and R, Tose'e Institute
Business Process Modelling with BPMN2, SUT

Online Courses ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

IBM Data Science Professional Certificate, IBM, Coursera
Machine Learning, Stanford University, Coursera
MS Excel Tips, Tricks, and Shortcuts, Udemy

References

◇ Shahram Shadrokh, Assoc. Professor
  shadrokh@sharif.edu
  (+98)21-6616-5741

◇ Mohammad Modarres Yazdi, Professor
  modarres@sharif.edu
  (+98)21-6616-5719

◇ Seyed Taghi Akhavan Niaki, Professor
  niaki@sharif.edu
  (+98)21-6616-5740

◇ Mohammad Vesal, Asst. Professor
  m.vesal@sharif.edu
  (+98)21-6616-5872