

Hamid Nakhaei

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🌐 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 _____

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modarres@sharif.edu
(+98)21-6616-5719 |
| ◇ Seyed Taghi Akhavan Niaki, Professor
niaki@sharif.edu
(+98)21-6616-5740 | ◇ Mohammad Vesal, Asst. Professor
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