

HAMED HELALI

hamedhelali.github.io

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HIGHLIGHTS

Equipped with advanced statistical modeling methods (e.g. mixed models, longitudinal data analysis and GLMs)

With hands-on experience in programming with Python and R

Proficient in utilizing Python data science packages (e.g. Numpy, Pandas and Scipy)

Knowledgeable in Bayesian modeling and inference methods

Familiar with the research literature on model selection methods

EDUCATION

York University, Toronto, ON

January 2020 - December 2020

M.A. in Mathematics and Statistics (GPA: 8.75/9.00)

Survey paper: Model selection methods in deep neural networks and SVM models

Sharif University of Technology, Tehran, Iran

Sep 2012 - June 2015

Master in Business Administration (GPA: 17.26/20)

Sharif University of Technology, Tehran, Iran

Sep 2008 - June 2012

B.Sc. in Industrial Eng. (GPA: 17.76/20)

COURSE PROJECTS

Development of a spelling correction algorithm using Bayesian modeling

May 2020

Implemented in: Python

A corpus-based spelling correction algorithm was developed using Bayesian inference.

Pricing Asian options using quasi-Monte Carlo method

April 2020

Implemented in: Python

A performance comparison was done among Monte Carlo simulation and quasi-Monte Carlo simulation using Sobol and Halton sequences.

Customer churn prediction

April 2020

Implemented in: R

A logistic regression classification model was developed and its hyper-parameters were tuned to get the desired level of sensitivity.

COMPUTER SKILLS

General purpose languages

Python (Expert), C++ (Familiar)

Scientific programming languages

R (Expert), MATLAB (Familiar)

Probabilistic programming languages

Stan (Intermediate)

Database management languages

SQL (Intermediate)

Reporting & presentation tools

R Markdown, Jupyter notebook, L^AT_EX, MS Office

COURSE HIGHLIGHTS

Graduate Courses

Applications of Mixed Models: A ⁺	Bayesian Statistics: A ⁺
Generalized Linear Models: A ⁺	Numerical Methods in Finance: A
Stochastic Processes: Fall 2020	Applied Statistics: Fall 2020
Advanced Numerical Methods: Fall 2020	Modern Optimization: Fall 2020
Time Series Analysis: Fall 2020	

Undergraduate Courses

Computer Programming (C++): 19/20	Probability Theory: 16.9/20
Engineering Statistics: 18/20	Regression Analysis: 16.9/20
Simulation and Statistics: 18.3/20	Linear Algebra: 17.4/20
Operations Research I: 18/20	Operations Research II: 17.2/20

Non-academic Courses

Deep learning specialization by deeplearning.ai

ACADEMIC EXPERIENCE

Teaching Assistant, York University

Applied Calculus II, Integral Calculus, Business Mathematics, Linear Algebra

WORK EXPERIENCE

Growth Manager

Cafe bazaar, Tehran, Iran

January 2019 - November 2019

Customer Behaviour Analyst

Cafe bazaar, Tehran, Iran

May 2018 - January 2019

Marketing Data Analyst

Baran Telecom Co., Tehran, Iran

July 2016 - May 2018

Market Research Specialist

Hiweb, Tehran, Iran

October 2015 - July 2016

HONORS & ACHIEVEMENTS

Ranked 7th among 80 B.Sc. graduates of industrial engineering program

2012

Ranked 307th among more than 300,000 in the nationwide University Admission Exam

2008

LANGUAGES

English: Fluent

Persian: Native

Azerbaijani: Native