HAMED HELALI

https://hamedhelali.github.io
8 Eglinton Ave. E, Toronto, ON. M4P 1A6
(647) 685-6936 ⋄ hellali.hamed@gmail.com

HIGHLIGHTS

Knowledgeable in different neural network architectures, their applications in NLP and programming platforms such as Keras and TensorFlow

Equipped with advanced statistical modeling methods (e.g. mixed models, Bayesian modeling and inference, 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)

Familiar with the research literature on model selection methods

EDUCATION

York University, Toronto, ON *January 2020 - present*
M.A. in Mathematics and Statistics (GPA: 4.00/4.00)
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)

SELECTED PROJECTS

Implementation of NLI task on Stanford Natural Language Inference Corpus *In-progress*
Implemented in: Python
In this project, I am using BERT architecture to classify relationships between pairs of English sentences to contradiction, entailment or neutral.

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, C++
Scientific programming languages	R, MATLAB, Stan
Data science packages	Numpy, Pandas, Scipy
Machine learning programming Platforms	Keras, TensorFlow
Database management languages	SQL
Reporting & presentation tools	Jupyter notebook, R Markdown, LaTeX, MS Office

ACADEMIC COURSE HIGHLIGHTS

Graduate Courses

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

Undergraduate Courses

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

NON-ACADEMIC COURSES

Sequence Models
deeplearning.ai
Issued Aug 2020. No Expiration Date

Structuring Machine Learning Projects
deeplearning.ai
Issued Aug 2020. No Expiration Date

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
deeplearning.ai
Issued Aug 2020. No Expiration Date

Neural Networks and Deep Learning
deeplearning.ai
Issued Aug 2020. No Expiration Date

ACADEMIC EXPERIENCE

Teaching Assistant, York University
Applied Calculus II, Integral Calculus, Business Mathematics, Linear Algebra

WORK EXPERIENCE

Growth Manager *January 2019 - November 2019*
Cafe bazaar, Tehran, Iran

Customer Behaviour Analyst *May 2018 - January 2019*
Cafe bazaar, Tehran, Iran

Marketing Data Analyst *July 2016 - May 2018*
Baran Telecom Co., Tehran, Iran

Market Research Specialist *October 2015 - July 2016*
Hiweb, Tehran, Iran

AWARDS & ACHIEVEMENTS

York Graduate Fellowship, York Graduate Scholarship and Suppl. Grad Assistance *2019*

Ranked 7th among 80 B.Sc. graduates of industrial engineering program *2012*

Ranked 307th among 300,000+ in the nationwide University Admission Exam *2008*

LANGUAGES

English: Fluent

Persian: Native

Azerbaijani: Native