

Aarash Feizi

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EDUCATION

MCGILL UNIVERSITY

PH.D. IN COMPUTER

SCIENCE

2019 - present | Montréal,
Canada

GPA: 4/4

SHARIF UNIVERSITY OF TECH.

B.SC. IN SOFTWARE

ENGINEERING

2014 - 2019 | Tehran, Iran

GPA: 18.87/20

HONORS

Received the **Fonds de
recherche du Québec – Nature
et technologies (FRQNT)**
doctoral scholarship 2022

**Ranked 3rd in DataJam Against
Exploitation Canada**
competition 2021

Received **School of Computer
Science Scholarship** from Mila,
Quebec AI Institute 2019

Ranked 100th out of over
220,000 students in the
National University Entrance
Exam 2014

SKILLS

PROGRAMMING

Python • R • Java • Matlab •
LaTeX

FRAMEWORKS

PyTorch • TensorFlow • Keras •
NetworkX

COURSEWORK

GRADUATE

Applied Machine Learning

Data Science

Natural Language Processing

Network Science

Graph Representation Learning

WORK EXPERIENCE

UNIVERSITY OF TORONTO | RESEARCH ASSISTANT

Summer 2018 | Toronto, Canada

- Worked in a group under the supervision of Professor Plataniotis
- Project goal was to improve the robustness of convolutional neural networks (CNNs) against adversarial attacks
- Implemented in Python 3

MOJ SECURE E-COMMERCE CO. | SOFTWARE ENGINEERING INTERN

Fall 2018 | Tehran, Iran

- Interned in the AI team under the supervision of the CTO and co-founder of Moj Company.
- Project goal was to parse an arbitrary image of any valid bank card and detect the digits in the 16-digit client card number
- Used a Single Shot Detector for object detection and a CNN for digit recognition
- Implemented in Python 3 using **TensorFlow** and **Keras**

PROJECTS AND PAPERS

REVISITING HOTELS-50K AND HOTEL-ID

Spring 2022

- Revisited two image datasets, Hotels-50K and Hotel-ID, and proposed new training and evaluation splits with different levels of difficulty
- Proposed evaluation splits based on the images' class and super-class information to imitate real-world scenarios
- **Accepted** paper for the **ICML 2022 DataPerf** workshop

STRUCTURE-AWARE NEGATIVE SAMPLING IN KNOWLEDGE GRAPHS

Spring 2020

- Design and implementation of a novel efficient negative sampling method with low computational cost for knowledge graphs
- Method based on considering the local neighborhood of each node when selecting the negative samples
- **Accepted** paper for the **EMNLP 2020** conference
- Implemented in Python 3 using **PyTorch**

SCIENTIFIC PAPER ACCEPTANCE PREDICTION

Fall 2019

- Design and implementation of neural network model which predicts acceptance of scientific papers with **84%** accuracy, based on their abstracts and introductions
- Implemented in Python 3 using **Keras** and **TensorFlow**

SALARY TREND ANALYSIS

Fall 2019

- Gathered and aggregated employee data from different occupation sectors from years 1996 to 2018 from Ontario, Canada
- Studied salary trends and found similar trend patterns exclusive to a few occupation sectors
- Used the Jensen–Shannon divergence between salary trends to construct a salary-similarity-network across employees in different sectors
- Built a multipartite graph from the employers and found meaningful employer embeddings