

Yasmin Niknam

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EDUCATION

Master of Science in Computer Science Present
Western University, London, ON
GPA:4/4

Bachelor of Science in Electrical Engineering 2016–2021
Minor in Software Engineering (GPA: 18.43/20)
University of Tehran, Tehran, Iran
GPA:18.25/20

High School Diploma in Mathematics and Physics 2012–2016
Farzanehgan1 High School, Ahwaz, Iran
GPA:19.83/20

HONORS AND AWARDS

- Received Mitacs Accelerate Fellowship of 15K CAD
- Received the University of Tehran M.Sc. Fellowship Award (exempted from the graduate entrance exam)
- Received Best Undergraduate Thesis Award from the University of Tehran
- Ranked 8th (among top 10 percent) out of 120 undergraduate students, School of Electrical and Computer Engineering, University of Tehran
- Ranked 111th among more than 200,000 participants in Iranian National University Entrance Exam in 2016
- Member of Iran's National Elites Foundation

ACADEMIC RESEARCH EXPERIENCE

Semi-Supervised Domain Adaptation for Regression Task Present
Designing and implementing a model capable of learning from a source domain and then perform well on a second domain called target domain.

Paragraph Generation for Untrimmed Video Present
Describing multiple events in untrimmed news videos from Thomson Reuters with descriptive paragraphs. (in collaboration with Vector Institute)

Vehicle Instance Localization and Counting Winter 2022
Designing a model capable of localizing and counting vehicles in an image taken from a drone and annotating real-world data for the project using Amazon Mechanical Turk tool

Cross-Modal Generation Fall 2021
Generating corresponding audio of a video using for a variety of categories state-of-the-art deep learning models and transformers.

Image Restoration Fall 2020
Restoring old photos that suffer from severe degradation through training two variational autoencoders (VAEs) to respectively transform old photos and clean photos into two latent spaces.

Multiple Object Tracking Fall 2020
Tracking people in crowded scenes by exploiting the bounding box regression of an object detector to predict the position of an object in the next frame, thereby converting a detector to a tracker.

Dialogue Generation Fall 2020
Implementing RNN, LSTM, and GRU Models to generate text files and conversations.

Price Estimation Spring 2020
Implementing a Regression Model to estimate cellphone prices based on customers' data.

COMPUTER SKILLS

Programming
Python, MATLAB, C/C++, Java

Libraries
Pytorch, Tensorflow, Keras, Weights and Biases, Pandas, Numpy, Scikit-learn, Matplotlib, OpenCV, Slurm Workload Manager, Git

Typesetting
Word, L^AT_EX

TEACHING AND WORK EXPERIENCE

Internship at Mitacs

2021-2022

Implementation of a three-part model which can generate heatmaps of the cars commuting in a parking lot using data gathered from a drone.

Internship at HARA AI

2019

Implementation of a system to recognize Persian Music and Singers using Machine Learning methods.

Teaching Assistant at University of Western Ontario

2021-2022

Holding lab sessions, grading assignments, proctoring and grading exams for courses Computer Science Fundamentals I and II.

Teaching Assistant and Supervisor at University of Tehran

2018-2021

Designing assignments, exams, and projects, grading exams, holding lab sessions, and managing classes in various courses namely Digital Logic Design, Linear Control Systems, Computer Programming, Digital Signal Processing, Engineering Mathematics, Engineering Probability and Statistics, Communication Systems, and Intelligent Systems.

LANGUAGES AND TESTS

Persian (*native*), English (*fluent*)

- IELTS Academic: 8 (Reading:8.5, Listening:8.5, Speaking:7.5, Writing:6.5)

EXTRACURRICULAR ACTIVITIES

Musical Studies

2010–Present

Focusing on a classical piano repertoire for over 10 years

Tedx Keshavarz Boulevard

May 2017

Working as a member of partnership in Tedx Keshavarz Boulevard