Ahmad Pourihosseini

[Seyed Ahmad Abdollahpouri Hosseini]

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OBJECTIVE

Hardworking graduate student with a superb academic record and strong theoretical and practical background in machine learning obtained through various machine learning courses, internships, and research assistantships. Looking for a full-time machine learning internship where I can apply my academic training and professional experience in the form of an applied research project.

EDUCATION

MSc in Applied Computing — **Sep. 2021 – Jun. 2023 (expected)**

University of Toronto, Department of Computer Science

- Vector Scholarship in Artificial Intelligence Recipient, Vector Institute, 2021
- Courses: Introduction to Machine Learning, Computational Linguistics, Neural Networks and Deep Learning (ongoing), Natural Language Computing (ongoing)

BSc in Computer Engineering – Software, GPA 3.97 — **Sep. 2015 – Feb. 2020**

University of Tehran, Department of Software Engineering

- Ranked 1st in cohort
- Faculty of Engineering Award (FOE), University of Tehran, 2016, 2017, and 2018
- Honourable Student Award, Supporter Foundation of the University of Tehran, 2019
- Relevant courses: Artificial Intelligence, Pattern Recognition (graduate), Neural Networks (graduate)

EXPERIENCE

Machine Learning and Computational Modeling Lab at the University of Tehran — **Feb. 2019 – Feb 2020**

Research Assistant

- Worked in collaboration with a graduate student on improving an adversarial perturbation generator to increase adversarial robustness of models trained using those perturbations.
- Re-implemented the original paper's code in PyTorch to reproduce the results.
- Increased the model's output diversity on three different Convolutional Neural Network (CNN) architectures using the fast.ai deep learning library.

Sensifai — **Jun. 2019 – Sep. 2019**

Machine Learning Engineer Intern

- Set up a real-time object detection pipeline on a piece of specialized hardware called Coral Dev Board using Tensorflow, which familiarized me with the practical aspects of machine learning in real-world settings.

Boghche — **Jun. 2017 – Sep. 2017**

Back-end Developer Intern

- Developed a telegram bot that received and registered customer orders in the central system using Node.js; this software surpassed the existing smartphone applications the startup already had in terms of customer usage.

RELEVANT PROJECTS AND EXTRACURRICULAR ACTIVITIES

Automatic Library of Congress Classification - Introduction to Machine Learning Course Project — **Fall 2021**

Applied state-of-the-art machine learning techniques involving word embeddings and sequential models to leverage previously unused data in classifying Library of Congress records, improving performance despite the small available dataset (see repository).

Auto-Shakespeare - Neural Networks Course Project — **Fall 2019**

An RNN with a character-level language model that generates text resembling Shakespeare's writing style using PyTorch (see repository)

NotMNIST Character Recognizer - Artificial Intelligence Course Project — **Spring 2018**

A Classifier for letters A-J of the notMNIST dataset, built from scratch with no external libraries (see repository)

Deep Learning Specialization by DeepLearning.AI – Coursera — **Jul. 2020 – Dec. 2020**

Included courses on sequence models, convolutional neural networks, hyperparameter tuning, and structuring machine learning projects (see certificate).

TECHNICAL SKILLS

- Machine Learning: PyTorch, Scikit-learn, Fast.ai, Tensorflow, Matplotlib, Jupyter Notebooks, NLTK
- Programming Languages: Python, Javascript, C/C++, Java