# 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 the generated 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 an object detection pipeline on a piece of edge computing hardware called the Coral Dev Board using Tensorflow. This familiarized me with practical aspects of machine learning in real-world settings, such as model quantization.

**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 Libraries: PyTorch, Scikit-learn, Fast.ai, Tensorflow, NumPy, Pandas, Matplotlib, Jupyter Notebooks, NLTK
- Programming Languages: Python, C/C++, Java, Javascript
- Other Relevant Technologies: Git, Linux, SQL, MongoDB, Web deveopment (HTML, CSS, Node.js, React)