

IMAN MIRZADEH

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RESEARCH INTERESTS

Machine Learning
Optimization Theory

Deep Learning
Causal Inference

EDUCATION

Washington State University
Doctor of Philosophy, Computer Science, EECS Department

August 2018 - May 2022 (expected)
current GPA: 3.8/4.0

University of Tehran
Bachelor of Science, Information Technology Engineering, ECE Department
Thesis: "Design and Implementation of a Deep Learning Based Question Answering System"

August 2013 - March 2018
GPA: 16.33/20.00

PUBLICATIONS

Improved Knowledge Distillation via Teacher Assistant: Bridging the Gap Between Student and Teacher. *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI), 2020.*

S. I. Mirzadeh, M. Farajtabar, A. Li, N. Levine, A. Matsukawa, H. Ghasemzadeh

Optimal Policy for Deployment of Machine Learning Models on Energy-Bounded Systems. (*preprint*) 2019.

S.I. Mirzadeh, H. Ghasemzadeh

LabelMerger: Learning Activities in Uncontrolled Environments. *Transdisciplinary AI (TransAI), 2019.*

S.I. Mirzadeh, J. Ardo, Ramin Fallahzade, B. Minor, L. Evangelista, D. Cook, H. Ghasemzadeh

EXPERIENCE

Washington State University
Graduate Research Assistant

August 2018 - current

- My current research focus is on the real world challenges of deploying machine learning models such as power optimization and model compression.

Sokhan AI
Machine Learning Engineer

August 2017-July 2018

- Our team developed context-aware "Natural Language Processing (NLP)" engine and fast "Object Detection" system and provided these systems as interfaces to be used by businesses.
- Technologies I used: Python, Scikit-Learn, Tensorflow, Keras, NLTK, Spacy, Redis, PostgreSQL, MongoDB.

Avaanegar
Software Engineer

January 2016- May 2017

- I worked in the streaming service team to build a real-time API for our media sharing social platform.
- Technologies I used: Python, Nodejs, Redis, MongoDB, PostgreSQL, Docker.

SKILLS

Programming Languages

Python, C, C++, Bash, R, Matlab, Java, SQL

Databases

PostgreSQL, MySQL, Redis, MongoDB, Elasticsearch

Frameworks & Libraries

Numpy, Scipy, Pandas, Pytorch, Tensorflow, Keras, Scikit-Learn,
Apache Spark, Apache Hadoop, Matplotlib, Seaborn, Spacy, NLTK

Software Engineering Tools

Git, Docker, Kubernetes, vim, L^AT_EX

OPEN SOURCE PROJECTS

Improved Knowledge Distillation: Pytorch implementation for the paper "Improved Knowledge Distillation via Teacher Assistant".

TF_Seq2Seq: Tensorflow implementation of Recurrent Neural Network(RNN) based sequence to sequence model with attention mechanism.

Persian News Spider: Scrapy based web crawlers for extracting text from top Persian news sites.

GloVe Embedding : Pre-trained GloVe word embedding for Persian language.

RNN Language Model: Word based language model using recurrent neural network.

HONORS AND AWARDS

(2018) Positive impact on more than 1,300,000 people in the stackoverflow community. [Top 2%](#) of stackoverflow community contributors last year.

(2018) Received Fellowship for CS PhD program from Washington State University.

(2017) Achieved 92nd percentile on quantitative reasoning section of the GRE General exam.

(2017) Awarded best bachelor project in cognitive science field of University of Tehran.

(2015) Third place best student award on the second year of the university.

(2013) Top 99.7th percentile in national university entrance exam among 291,956 participants.

UNIVERSITY COURSES

Linear Algebra (4/4)

Artificial Intelligence (4/4)

Neural Networks & Deep Learning (4/4)

Algorithm Design (4/4)

Network Science (4/4)

Probability and Statistics (4/4)

Data Structures (4/4)

Machine Learning (4/4)

Advanced Algorithms (4/4)

Structured Prediction (4/4)

ONLINE COURSES

A Crash Course in Causality: Inferring Causal Effects from Observational Data (Coursera)

Neural Networks and Deep Learning by deeplearning.ai on Coursera [certificate](#)

Microsoft DAT203x Data Science and Machine Learning Essentials: [certificate](#)

Microsoft DAT204x Introduction to R Programming: [certificate](#)

Coursera Game Theory: [certificate](#)