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"What we lack in knowledge, we make up for in data."

Education

University of Tehran Tehran, Iran

MASTER OF ARTIFICIAL INTELLIGENCE

Sep. 2017 - Now

- Expected graduation date: Aug. 2019
- Notable courses: Deep Learning(4/4), Human Visual System(4/4), and Machine Learning(4/4)

University of Tehran Tehran, Iran

BACHELOR OF SOFTWARE ENGINEERING

Sep. 2013 - Jun. 2017

- GPA: 17.80/20
- Notable courses: Artificial Intelligence(4/4) and Engineering Mathematics(4/4)
- · Notable online courses: Hinton's Neural Networks for Machine Learning, Stanford's Natural Language Processing with Deep Learning

Allameh Helli High School

Tehran, Iran

DIPLOMA IN MATHEMATICS July 2009 - July 2012

• Part of National Organization for Development of Exceptional Talents (NODET)

Work Experience _____

Neiron Tbilisi, Georgia

Al Intern

Summer 2018-Fall 2018

- · Stock price prediction with hierarchical networks: designing a time series prediction model by combining the companies hierarchy (companies, sectors, and industries) with the time hierarchy (tick, minute, hour, etc) given the diverse data sources (tick data, news, sentiment analysis, and financial reports)
- EASE(Ease is Automated Sentence Embedding): choosing the best algorithm or pretrained model of sentence embedding for a new sentencelevel NLP task based on its task embedding and previous results, something like auto-sklearn for sentence level tasks

Aban Corp. Tehran, Iran

SOFTWARE ENGINEER

Summer 2017

· Design and implementation of an advertising platform for telegram with node and python

Aban Corp. Tehran, Iran

DATA SCIENTIST

Summer 2016

Implemented an app2vec engine for Aptoide based on the app description and its reviews to improve app recommendation.

Pars Petro Zagros Geophysics

Tehran, Iran

SOFTWARE DEVELOPER

Summer 2015

• Highly efficient Ricker estimated deconvolution using C and OpenMP.

Aban PPC Tehran, Iran

JUNIOR SOFTWARE ENGINEER

Summer 2013

Implemented a log aggregation system for their CDN system using twitter's storm(now known as apache storm).

Academic Experience

University of Tehran

Tehran, Iran

AI RESEARCHER

Fall 2017-Now

• Training a progressive-growing GAN to generate multi-channel and conditional EEG signals and evaluating them by inception score and sliced Wasserstein distance with Professor Sadeghi using TUH EEG corpus which has noisy labels; we are in the middle of writing the paper and improving the conditional part with recent advances in conditional GANs(projection-GAN and SAGAN); the code is available at my github repository

University of Tehran

TEACHER ASSISTANT

Tehran, Iran

Spring 2014-Spring 2017

• TA of many courses including Advanced Programming, OS, Internet Engineering, and Signals & Systems

DECEMBER 20, 2018 SEPEHR SAMENI · RÉSUMÉ



- Programming Languages: Python, C, C++, CUDA, Java, Java Script, Verilog
- Deep Learning Frameworks: PyTorch, TensorFlow, Keras, OpenAI Gym

Honors & Awards

2015-16	FOE Award, ranked 3rd among students of Computer Engineering	Tehran, Iran
2013-14	FOE Award, ranked 2nd among students of Computer Engineering	Tehran, Iran
2013	Ranked 91st (regional rank), and 160th (national rank) in the National Universities Entrance Examination	Tehran, Iran
	among more than 300,000 contestants, 2013	
2012	Ranked 1st (regional rank), Khwarizmi youth award	Tehran, Iran

Notable Projects

SSAN

SELECTIVE SELF ATTENTION NETWORK Fall 2018 - Now

• Reducing the memory cost of the transformer self attention from $\mathcal{O}(n^2)$ to $\mathcal{O}(n*k)$ by using capsule nets

ASE

AWESOME SENTENCE EMBEDDING Fall 2018 - Now

· list of all sentence and word embedding models with pretrained weights and official implementations

PyTorch

FIXING A BUG IN PYTORCH Fall 2018

· fixed a bug in torch.norm function and another one in torch.jit parser

BERT-keras

BERT IN KERAS Fall 2018

 reimplementation of BERT and OpenAl's transformer LM in keras capable of loading pretrained models with a great object-oriented abstraction over tasks and training

Emoji Prediction

My Bachelor of Science Thesis Spring 2017

 Emoji prediction for Persian and English with a QRNN trained over bilingual word vectors obtained from tweets with FastText and aligned with 200 anchor words

Agah Keyboard

Modular Android Keyboard Fall 2016 - Winter 2017

• Design and implementation of a modular android keyboard based on AOSP with swipe feature and a 3-gram language model

F1-AR

F1'S AUGMENTED REALITY EXPERIENCE

Summer 2014

• Augmented Reality for ACM's student branch using OpenCV.

3D Soccer Simulation

TRIPLE-A'S 3D-SS TEAM Spring and Summer 2011

- Omni-directional walk.
- · Multi-power kick.

Mixed Reality Soccer Simulation

Triple-A's mixed-reality team Fall 2010

• Participated in Iran Open 2010.

Research Interests

- Neural Attention(both self-attention and co-attention)
- Generative Models(both GANs and flow based models)
- Multiligual Systems
- Binarized Neural Networks(or efficient networks, like MobileNet)
- Language Modeling
- · Hierarchical Networks
- Multi-Task Learning