

Tehran, Iran

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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: Sep. 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-Now

- Stock price prediction with hierarchical networks: combining the symbol hierarchy (symbol, sectors, and industries) with time hierarchy (tick, minute, hour, etc) given the diverse data sources (tick data, news, and sentiment)
- Automatic sentence embedding selection based on task embedding: choosing the best algorithm or pretrained model of sentence embedding for a new sentence-level NLP task given the previous tasks and results

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
Software Developer

Tehran, Iran 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

Al Researcher Fall 2017-Now

• Training a progressive-growing GAN to generate multi-channel and conditional EEG signals with Dr. 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)

University of Tehran Tehran, Iran

TEACHER ASSISTANT Spring 2014-Spring 2017

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

November 9, 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 requirement of self attention from $\mathcal{O}(n^2)$ to $\mathcal{O}(n*k)$

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

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