Esmaeil Farhang

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EXPERIENCE

HiBrainy (Roham AI)

JUL 2019 - now

Machine Learning Engineer

- Developing the TTS(Text to Speech) technology for English, French, and Persian and deploying services in the HiBrainy Platform.
- R&D on face anti-spoofing, liveness detection, head pose estimation, face depth estimation, and face emotion detection.
- Developing the VAD(Voice Activity Detection) for Android.

Namava - University of Tehran

June 2018 - SEP 2108

Data Scientist

· Participation in the Designing and Implementation Movie recommender system for Namava.

EDUCATION

University of Tehran SEP 2017 - SEP 2020

Master of Science - MS, Artificial Intelligence

Courses:

• Machine Learning

• Pattern Recognition

• Statistical Inference

• Reinforcement Learning

• Deep Learning with Applications

Data Analytics

Social Networks

• Advanced Robotics

Shiraz University SEP 2011 - SEP 2106

Bachelor of Science - BS, Mathematics and Computer Science

Notable Courses:

• Statistical Methods

• Dynamic Systems

• Mathematical Statistics

• Numerical Linear Algebra

- Linear Algebra (1,2)
- Optimization
- Stochastic Processes
- Design Algorithms

PROGRAMMING SKILLS

- Programming Languages: Python, C/C++, R
- Deep Learning Frameworks: Pytorch, Tensorflow, Keras
- Speech Recognition and Synthesis Toolkit: Kaldi, Espnet, Marytts, HTS
- Other Languages: Familiar with Java, Android, and Haskell Languages
- Linux / Git / Docker

SELECTED ACADEMIC PROJECTS

Deep Learning with Applications

Spring 2018

- Implementation Neural Network Combined with RNN and CNN and Use CTC loss for Librispeech data set for converting speech to text.
- Implementation parallel structure Gaussian mixture model -hidden Markov model (GMM-HMM) using the Viterbi and Boum- Welch algorithm, and compare with the gaussian mixture model Deep Neural Network (GMM DNN) on Spoken Arabic Digit Data Set.

Pattern Recognition

Fall 2017

• Designing and implementation of traditional machine learning classifiers for different problems.

Machine Learning

Fall 2017

• Implementation and comparison of different RL methods such as Q-Learning and SARSA in multi-state environments and Continuous RL methods such as RBF and Fuzzy.

Social Networks

Fall 2018

• Creating the relationship graph between the spiking activity of hundreds of neurons in mouse somatosensory cortex slice cultures, using the transfer entropy, Granger causality, and cross-correlation methods and comparing these methods using the social network analysis tools of Python and Matlab.

Data Analytics Fall 2018

- Investigating the Variable of Social Trust and Comparing its Effective Factors on the Basis of a Survey on Iranian People From 1999 to 2009 for Descriptive Analytics Project with python.
- Predicting the Saccadic Targets with Individual and Population Neural Response for Predictive Analytics Project with python.

Created using Resumonk - Online Resume Builder

Statistical Inference Spring 2018

• Analyzing and Visualizing the FIFA Player dataset with R.

FIELDS OF INTEREST

- Machine Learning and Deep Learning
- Machine Vision
- System and Computational Neuroscience

- Data Science
- Speech Processing
- NLP