Mohammad Mahdi Heydari

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RESEARCH INTERESTS

- Machine Learning / Deep Learning
- Computer Vision
- Neuroscience
- Data Mining

EDUCATION

Amirkabir University of Technology **Tehran, Iran**
Bachelor of Science in Computer Engineering, GPA – 3.86/4, AVG – 18.37/20 *2015–2020*
via 115 credits till now.
- Major: Artificial Intelligence, Minor: Software Engineering
- Extracurricular: 30 credits from Electrical Engineering.

Alborz High School **Tehran, Iran**
Diploma of Mathematics and Physics, GPA – 4/4, AVG – 19.32/20 *2011–2015*

SELECTED COURSES

- Data Mining: 20/20
- Linear Algebra: 20/20
- Formal Languages and Automata: 20/20
- Algorithm Design: 20/20
- Advanced Programming: 20/20
- Numerical Analysis: 20/20
- Data Structures: 19.75/20
- Principles of Database Design: 19.29/20

Online Courses

- Creative Applications of Deep Learning with Tensorflow
- Machine Learning
- Deep Learning Specialization
- Introduction to Data Science
- Web Programming with Python and JavaScript
- Full Stack Web Development with Django
- Data Structures and Algorithms Specialization
- Neural Networks for Machine Learning
- Introduction to Tensorflow

AWARDS AND CERTIFICATES

- Ranked 6th among 100 undergraduate students in computer engineering department, Amirkabir University of Technology.
- Completed Data Scientist program with more than 20 courses at Data Camp.
- Ranked in top 0.2% among all students in university entrance exam more than 180,000 participants. [summer 2015]
- Honored to be among privileged entrance students and permitted to study both computer engineering and electrical engineering by exceptional talents office, Amirkabir University of Technology.
- Completed Microsoft Certified Solution Developer Program in Tehran institute of technology.

EXPERIENCE

Academic Research

Anomaly Detection in Spatio-temporal Data — **Under the Supervision of Dr.Nazerfard**
Bachelor's Thesis Project — *Summer 2019–present*
Designing a Recurrent Convolutional Auto Encoder that learns to reconstruct Spatio-temporal data so that it could detect anomalies in test data. The application of this neural network is to diagnose dementia in elderly living in a smart house.

Teaching Assistant

Data Mining — **Under the Supervision of Dr.Khabbaz**
Amirkabir University of Technology — *Fall 2019*
Department of Computer Engineering

Data Structures — **Under the Supervision of Dr.Bagheri**
Amirkabir University of Technology — *Fall 2019*
Department of Computer Engineering

Advanced Programming — **Under the Supervision of Dr.Jahanshahi**
Amirkabir University of Technology — *Spring 2019*
Department of Computer Engineering

Logic Circuits Lab — **Under the Supervision of Mr.Keshavarzian**
Amirkabir University of Technology — *Spring 2018*
Department of Computer Engineering

Professional

ARSH Co. — **Tehran**
Summer Intern, Iran — *Summer 2018*
During the internship program, we were first introduced to web development with HTML, CSS, Javascript, and Django. Afterward, we developed a task scheduling application. Then using data mining and text processing approaches we learned to monitor social media activities. The result led to a recommender system that matches customers and advertisers. I also voluntarily took part in UX design and agile software development workshops.

PUBLICATION

Presentations

Spring 2019: Computer Vision with CNN, a lecture related to Data Mining course material.

Spring 2019: Back-end Programming with Django, a three-week workshop related to Advanced Programming course.

Spring 2019: Optimal Binary Decision Trees, related to Advanced Algorithm Design course (for graduate students).

SKILLS

Programming/Scripting

- Python: fully proficient in using related libraries containing tensorflow, scikit-learn, opencv, etc.
- Java, C++, C#: appropriate familiarity.
- Web Programming: html5, css3, javascript
- Database: postgresql, mongodb
- Hardware: vhdl, arduino, avr, arm
- Miscellaneous: linux, latex, jupyter notebook, matlab/octave, git

Languages

Farsi: Mothertongue

English: Fluent
- *Toefl Score: 104 (R:24, L:29, S:24, W:27).*
- *GRE score will be reported after Nov 11, 2019.*

French: Basic *Basic Words And Phrases Only*

References, further information, and proofs are available upon request