Ali Hejazizo | Curriculum Vitae

University of Alberta-Department of Computer Science

☐ (+1) 780 680 3295 • ☑ hejazizo@ualberta.ca • ຝ hejazizo.com • in hejazizo ♠ hejazizo

RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing

EDUCATION

Master of Science

University of Alberta

- Computer Science

· GPA: 4/4 via 9 credits

- Electrical and Computer Engineering

· GPA: 3.9/4 via 9 credits

Bachelor of Science

Amirkabir University of Technology

- Electrical and Computer Engineering

· Major: Power Systems

· Minor: Electronics

· GPA: 4/4

May, 2016–Present *Edmonton-Canada* May, 2017-2019 (Expected)

May, 2016-2017

2011–2015 Tehran-Iran

HONORS

- Ranked 1st in Electrical Engineering, Power Group, among more than 30 students, Amirkabir University of Technology, Tehran, Iran.
- o Ranked 121st in university entrance exam, among more than 300,000 participant [Summer 2011].
- o Granted admission from Talented Student Office of Amirkabir University of Technology for graduate study.

WORK EXPERIENCE

o 🙇 AltaML

Several machine learning projects, including but not limited to:

June 2018-present

- Natural Language Processing
 - · Question answering
 - · Text classification
 - · Entity extraction
 - Spelling correction
- Survival Analysis
- Cancer type prediction and classification

- ...

PROJECTS

 Mapping Macroscopic Brain Connectomes via Multidimensional Encoding, Learning, and Optimization using dMRI brain images.

- Mapping onnectomes for one part of the brain, the arcuate fasciculus, using extremely high-dimensional sparse tensors.
- Loading data and visualization in Matlab
- Encoding, learning, and optimization in C with GPU parallel computing.
- Supervisor: Dr. Martha White
- o Diagnosis of Alzheimer's Disease Based on Structural MRI Images using Machine Learning Techniques.
 - Step 1: Preprocessing MRI images using Freesurfer tools.
 - Step 2: Feature extraction.
 - Step 3: Applying machine learning techniques for diagnosis task.
 - Supervisor: Dr. Jörg Sander
- Model compression with teacher-student method on MNIST dataset using Tensorflow.
 - Supervisor: Dr. Nilanjan Ray
- o Efficient keyword and phrase retrieval for the boolean and vector space models. This project includes:
 - Building an inverted index to enable fast document retrieval.
 - Boolean and vector space model retrieval.
 - Zone indexing and scoring.
 - Supervisor: Dr. Denilson Barbosa

Courses

[Fall 2017] o 🏶 Information Retrieval Machine Learning [Winter 2018] - Instructor: Dr. Martha White - Instructor: Dr. Denilson Barbosa [Winter 2019]

o ₩ Knowledge Discovery and Data Mining [Fall 2017] o ₩ Deep Reinforcement Learning

- Instructor: Dr. Jorg Sander - Instructor: Prof. Rich

Online Courses

- P Complete Python Bootcamp: Go from zero to hero in Python 3
- Python Beyond the Basics Object-Oriented Programming
- Data Analysis Course with Pandas: Hands on Pandas, Python
- Data Analysis with Pandas and Python
- The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert
- য Machine Learning
- Python for Everybody Specialization
- Parallel Programming using GPGPU and CUDA

IntelliJ

Matlab

- The Data Scientist's Toolbox
- Introduction to HTML5 Introduction to CSS3
- Interactivity with JavaScript
- Git Complete

COMPUTER SKILLS

Programming/Scripting

- Python o C/C++
 - Tensorflow CUDA
 - NLTK cuBLAS
 - Sklearn cuSparse
- Pandas JavaScript MySQL HTML5/CSS3
- SQLite LATEX
- SPARQL

IDEs/Tools

- VSCode
- PyCharm
- Sublime Text

TEACHING EXPERIENCES

- Teaching Assistant
 - @ CMPUT 272 Formal Systems and Logic in Computing Science
 - · Lab instructor
 - · Instructor: Dr. Lorna Stewart (University of Alberta)

Winter 2020

- @ CMPUT 101 - Introduction to Computing

Winter, Fall 2017 & Winter 2018, 2019

· Lab instructor

· Instructor: Dr. Janelle Harms (University of Alberta)

- Advanced Programming

Winter 2016

· Instructor: Dr. Jahanshahi (Amirkabir University)

-
 C++ Programming

Fall 2015

· Instructor: Dr. Amir Jahanshahi (Amirkabir University)

- 🚇 Electrical Machines I

Winter 2014

· Instructor: Dr. Javad Moghani (Amirkabir University)

-

Engineering Mathmathics

Fall 2013

· Instructor: Dr. Yaser Norouzi (Amirkabir University)

• References, Further information, and Proofs are available upon Request