Amirmohammad Kazemeinizadeh

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Education

Jan. 2021 – now	**Western University** M.Sc. in Computer Science (Vector Institute Collaborative Specialization in AI) Under supervision of prof. Robert E Mercer
Sep. 2015 – Feb. 2020	**Iran University of Science and Technology (Iran top 3)** B.Sc. in Computer Engineering (Software) GPA: 3.64/4 GPA (Last 2 semesters): 3.82/4
Sep. 2011 –Jun. 2015	**Allame Helli 1 High School** Affiliated with the National Organization for Development of Exceptional Talents(NODET) Diploma in "Mathematics and Physics" GPA: 4/4

Research Interests

Applied Machine Learning (Affective Computing, Computational Psychology, Social Science and Linguistics)
Natural Language Processing
Machine Learning and Deep Learning
Data mining
Artificial Intelligence

Publications

IEEE TAFFC 2020 [Under review]	Y. LI, **A. Kazemeini**, Y. Mehta, E. Cambria **"Multitask Learning for Emotion and Personality Detection"** IEEE Transactions on Affective Computing
IEEE ICDM 2020	Y. Mehta, S. Fatehi, **A. Kazemeini**, C. Stachl, E. Cambria, S. Eetemadi **"Bottom-Up and Top-Down: Predicting Personalitywith Psycholinguistic and Language Model Features"** IEEE International Conference on Data Mining
ACL WiNLP 2020	**A. Kazemeini**, S. Fatehi, Y. Mehta, S. Eetemadi, E. Cambria **"Personality Trait Detection using Bagged SVM over BERT word embedding ensembles"** Association of Computational Linguistics- Widening NLP workshop

Notable Projects

Personality Detection (NLP) March. 2019 – Present	**Improved the performance of the former state-of-the-art model in Personality Detection (with more than 240 citations since 2017)** • Learning time reduced from 5 hours to 1 hour on CPU and 45s on GPU [Github]
Object Detection (Digital Image Processing) Sep. 2019 – Feb. 2019	**Detecting the collision time and position of the ball against the wall**
Recommender System (Artificial Intelligence) Sep. 2017 – Feb.2018	**Implementing and comparing conventional Recommender Systems**
EasyBot (Software engineering project)	**Online Store bot for Telegram** • Includes shopping cart, shipping time picker, admin panel, advertising schedule, etc.

May. 2017 – Jan. 2018

One Piece (Android)
Jan. 2017 – Feb. 2017

A bilingual Android Ebook available on Cafe Bazaar

Academic Experience

NLP Research Assistant
Oct. 2020 – Present

Western University

- Under supervision of prof. Robert E Mercer
- Collaborating with Sentic team under supervision of prof. Erik Cambria
- Working on interpretability of personality detection models.
- Working on enriching computational psychology deep learning models with psychological discoveries (combining symbolic and subsymbolic AI).

Data Analytics (CS 2034) Teaching Assistant
Spring 2019

Western University
Dr. Jacob Hunte

Reviewer
Feb. 2020 – Present

Elsevier Knowledge-Based Systems(IF=5.1)
IEEE Computational Intelligence Magazine (IF=5.877)

- Reviewing articles related to NLP applications, DataMining and Personality Detection

NLP Research Assistant
March. 2019 – Feb. 2020

Iran University of Science and Technology

- Designed a new general interpretable **personality detection** model which outperformed prior SOTA on different datasets.
- Submitted a paper to IEEE ICDM 2020
- Designed a new **document-classification** model by combining Transfer Learning and Classic Machine Learning methods
- Achieved **new SOTA** in a common personality detection dataset in all traits (outperformed prior SOTA with more than 240 citations since 2017)
- Submitted a paper to ACL-WiNLP 2020 as **the first author**

Data Mining Research Assistant
Jan. 2018 – March. 2019

ABDAL (Advance Big Data Analysis Laboratory), Iran University of Science and Technology

- Working on Spatio-temporal outlier detection and clustering methods and Big-data analysis
- Testing and developing models on **475 million** records dataset
- Running the tested code on **4 billion** records per day Big-data stream
- Implemented KAMO: A Generic standalone general-purpose big-data analysis software (Java, Spark(Scala), Python)
- Implemented a variety of Trajectory detection and prediction models (Spark(Scala), KAMO, Python)
- Implemented GKAMO: A web-based interactive big-data graph analysis software (Javascript,Cytoscape.js)
- Used Tableau for visualizing the spatiotemporal clusters and results.

Deep Learning Teaching Assistant
Fall 2019

Iran University of Science and Technology
Dr. Pilehvar Undergraduate Course

NLP Teaching Assistant
Spring 2019

Iran University of Science and Technology
Dr. Eetemadi Undergraduate Course

Data Mining Teaching Assistant
Fall 2018

Iran University of Science and Technology
Dr. Rahmani **Graduate** Course

Internship Experience

Data Mining Research Assistant
Sep. 2017 – Jan. 2018

ABDAL (Advance Big Data Analysis Laboratory), Iran University of Science and Technology

- Learning Spark(Scala), Java and Clementine as tools of Data Mining

Android Developer

Red Crescent Society of the Islamic Republic of Iran

Nov. 2016 – Jan. 2017

- Implementing educational android games

Honors & Awards

Scholarships

Western University
2020

Recipient of fully-funded M.Sc. of CS admission under supervision of prof. Robert E Mercer (accepted)

Nanyang Technological University
2020

Recipient of fully-funded Ph.D. admission under supervision of prof. Erik Cambria (rejected)

ACM

Intra-University ACM
2017

1st team, Iran University of Science and Technology (2 times)

ACM ICP
2015

1st team, First stage of ACM ICPC (among IUST students)

IOI and IMO

Iranian Olympiad in Mathematics
2012,2013,2014

Semi-finalist (3 times)

Iranian Olympiad in Informatics
2013,2014

quarter-finalist (2 times)

Other

Undergraduate Ranking
2019

Top 5, Iran University of Science and Technology, Computer Engineering (Software). Eligible to continue M.Sc without entrance exam

SPC AI challenge
2016

1st team (among Iranian universities)

The Nationwide Entrance Exam of Iranian Universities
2015

Top 0.5% (among more than 180,000 contestants)

Kashani International Mathematics and Intelligence competition
2009

1st place (among all Iranians living abroad), Kuwait City, Kuwait

Main Courses

All of the courses below are passed with 4/4 score:

Natural Language Processing
Theory of Languages and Automata
Computer Engineering
Digital Image Processing(computer vision)
Data Structures
Database Design
principles of computational intelligence
Artificial Intelligence
Introduction to Algorithms
Robotics

Skills

Technical (proficient)	Python, Java, Spark(Scala), Cytoscape, Clementine, HTML, JavaScript, CSS, Jetbrains(Pycharm, IntelliJ, Android Studio), Adobe Photoshop, Tableau
Technical (familiar)	Django, C++, C,8086 Assembly, SQL, Arduino, Modelsim
Languages	Persian: Native

English: Fluent IELTS: 7.5/9 (Listening: 7.5, Reading: 9, Speaking: 7, Writing: 6.5)
GRE: 310 (Quant: 168, Verbal: 142, Analytical: 4)

Arabic: Familiar

Self Study and MOOC

Personality and Its Transformation / Fall 2020
University of Toronto(Audited, currently passing) – Instructor: Dr. Jordan B Peterson

Linear Algebra/ Fall 2020
MIT (Audited, currently passing) – Instructor: Dr. Gilbert Strang

English Conversational Program / Fall 2020
Western University

Computational Social Science Methods / Fall 2020
University of California, Davis - Instructor: Dr. Martin Hilbert

Natural Language Processing with Attention Models / Fall 2020
Deeplearning.ai - Instructor: Younes Bensouda Mourri and Łukasz Kaiser

Natural Language Processing with Classification and Vector Spaces / Fall 2020
Deeplearning.ai - Instructor: Younes Bensouda Mourri and Łukasz Kaiser

Introduction to Data Science in Python / Spring 2020
University of Michigan - Instructor: Dr. Christopher Brooks

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning / Spring 2020
Deeplearning.ai - Instructor: Laurence Moroney

Fundamentals of Reinforcement Learning / Spring 2020
University of Alberta, Alberta Machine Intelligence Institute – Instructor: Dr. Martha and Adam White

Becoming a peer reviewer Course / Winter 2020
Elsevier Researcher Academy

Certified Peer Reviewer Course / Winter 2020
Elsevier Researcher Academy

Introduction to Psychology / Fall 2019
Coursera in corporation with Yale University - Instructor: Dr. Paul Bloom

Deep Learning / Spring 2019
Graduate Course at IUST - Instructor: Dr. Mohammad Taher Pilehvar

Exploratory Data Analysis / Spring 2019
Coursera in corporation with Johns Hopkins University (Audited) - Instructor: Dr. Roger Peng

Learning How to Learn / Spring 2019
Coursera in corporation McMaster University & UCSD – Instructors: Dr. Barbara Oakley & Dr. Terrence Sejnowski

Sequence Models / Spring 2018
Coursera in corporation with Deeplearning.ai (Audited) - Instructor: Prof. Andrew Ng

Big Data Analysis with Scala and Spark / Fall 2017
Coursera in corporation with EPFL (Audited) - Instructor: Dr. Heather Miller

Data mining / Spring 2017
Graduate Course at IUST - Instructor: Dr. Hossein Rahmani