Amirmohammad Kazemeinizadeh

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Education

Jan. 2021 – now	**Western University** M.Sc. in Computer Science (AI)
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

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) May. 2017 – Jan. 2018	**Online Store bot for Telegram** • Includes shopping cart, shipping time picker, admin panel, advertising schedule, etc.

One Piece (Android) Jan. 2017 – Feb. 2017	**A bilingual Android Ebook available on <u>Cafe Bazaar</u>**

Academic Experience

Reviewer Feb. 2020 – Present	**<u>Elsevier Knowledge-Based Systems(IF=5.1)</u>** **<u>IEEE Computational Intelligence Magazine (IF=5.877)</u>** • 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)
<u>Deep Learning Teaching Assistant</u> 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 Sparl(Scala), Java and Clementine as tools of Data Mining
Android Developer Nov. 2016 – Jan. 2017	**Red Crescent Society of the Islamic Republic of Iran** • Implementing educational android games

Honors & Awards

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)**

<u>IOI</u> and <u>IMO</u>

<u>Iranian Olympiad in Mathematics</u> 2012,2013,2014	**Semi-finalist (3 times)**
<u>Iranian Olympiad in Informatics</u> 2013,2014	**quarter-finalist (2 times)**

Other

<u>Undergraduate Ranking</u> 2019	**Top 5, Iran University of Science and Technology, Computer Engineering (Software). Eligible to continue M.Sc without entrance exam**
<u>SPC AI challenge</u> 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	Data Structures	Artificial Intelligence
Theory of Languages and Automata	Database Design	Introduction to Algorithms
Computer Engineering	principles of computational intelligence	Robotics
Digital Image Processing(computer vision)		

Skills

Technical (proficient)	Python, Java, Spark(Scala), Cytoscape, Clementine, HTML, JavaScript, CSS, Jetbrains(Pycharm, IntelliJ, Android Studio), Adobe Photoshop
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

<u>Personality and Its Transformation</u> / Fall 2020
University of Toronto(Audited, currently passing) – Instructor: Dr. Jordan B Peterson
<u>Linear Algebra</u>/ Fall 2020
MIT (Audited, currently passing) – Instructor: Dr. Gilbert Strang
<u>English Conversational Program</u> / Fall 2020
Western University
<u>Computational Social Science Methods</u> / Fall 2020
University of California, Davis - Instructor: Dr. Martin Hilbert
<u>Natural Language Processing with Attention Models</u> / Fall 2020
Deeplearning.ai - Instructor: Younes Bensouda Mourri and Łukasz Kaiser
<u>Natural Language Processing with Classification and Vector Spaces</u> / Fall 2020
Deeplearning.ai - Instructor: Younes Bensouda Mourri and Łukasz Kaiser
<u>Introduction to Data Science in Python</u> / Spring 2020
University of Michigan - Instructor: Dr. Christopher Brooks
<u>Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning</u> / Spring 2020
Deeplearning.ai - Instructor: Laurence Moroney
<u>Fundamentals of Reinforcement Learning</u> / Spring 2020

University of Alberta, Alberta Machine Intelligence Institute – Instructor: Dr. Martha and Adam White
<u>Becoming a peer reviewer Course</u> / Winter 2020
Elsevier Researcher Academy
<u>Certified Peer Reviewer Course</u> / Winter 2020
Elsevier Researcher Academy
<u>Introduction to Psychology</u> / 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
<u>Exploratory Data Analysis</u> / Spring 2019
Coursera in corporation with Johns Hopkins University (Audited) - Instructor: Dr. Roger Peng
<u>Learning How to Learn</u> / Spring 2019
Coursera in corporation McMaster University & UCSD – Instructors: Dr. Barbara Oakley & Dr. Terrence Sejnowski
<u>Sequence Models</u> / Spring 2018
Coursera in corporation with Deeplearning.ai (Audited) - Instructor: Prof. Andrew Ng
<u>Big Data Analysis with Scala and Spark</u> / Fall 2017
Coursera in corporation with EPFL (Audited) - Instructor: Dr. Heather Miller
Data mining / Spring 2017
Graduate Course at IUST - Instructor: Dr. Hossein Rahmani