

## Sina Mahdipour Saravani

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CONTACT	<i>E-mail:</i> <a href="mailto:sinamahdipour@yahoo.com">sinamahdipour@yahoo.com</a> <i>Homepage:</i> <a href="http://sinamahdipour.github.io">sinamahdipour.github.io</a>
FIELDS OF INTEREST	<ul style="list-style-type: none"><li>◇ Natural Language Processing</li><li>◇ Deep Learning, Machine Learning</li><li>◇ Chat-bots, Text Generation, Question Answering</li></ul>
EDUCATION	<p><b>University of Nevada, Las Vegas</b>, Las Vegas, United States</p> <ul style="list-style-type: none"><li>◇ Ph.D. Computer Science, In Progress 2019 - 2025<ul style="list-style-type: none"><li>• Cumulative Grade Average: <b>4</b></li></ul></li></ul> <p><b>Amirkabir University of Technology (Tehran Polytechnic)</b>, Tehran, Iran</p> <ul style="list-style-type: none"><li>◇ B.Sc. Computer Systems Architecture, 2014 - 2019 (Ranked 174 top Computer Science Universities in the World)<ul style="list-style-type: none"><li>• Cumulative Grade Average: <b>3.31</b></li><li>• Upper-Division GPA: <b>3.63</b></li></ul></li></ul> <p><b>Samii High School</b>, Rasht, Iran</p> <ul style="list-style-type: none"><li>◇ Diploma in Physics and Mathematics Discipline 2010 - 2014<ul style="list-style-type: none"><li>• Cumulative Grade Average: <b>20/20</b></li></ul></li></ul>
RESEARCH AND WORK EXPERIENCE	<ul style="list-style-type: none"><li>◇ <b>Graduate Assistant, University of Nevada, Las Vegas</b> 2019 - 2020<ul style="list-style-type: none"><li>• Supervisor: <b>Dr. Kazem Taghva</b></li><li>• Natural Language Processing; Currently working on Named Entity Recognition for Persian, and Sentence Matching for English.</li></ul></li><li>◇ <b>Research Assistant and AI Developer, CommentMiner, Tehran, Iran</b> 2017 - 2018<ul style="list-style-type: none"><li>• Supervisor: <b>Mr. Asadi</b></li><li>• CommentMiner is a start-up working on a set of text processing services and intelligent chat bots. Tasks included: working on topic classification, profanity detection, NER, sentiment analysis.</li></ul></li></ul>
TEACHING EXPERIENCE	<ul style="list-style-type: none"><li>◇ <b>Computer Science II, Instructor</b> Summer 2020<ul style="list-style-type: none"><li>• <b>University of Nevada, Las Vegas</b></li></ul></li><li>◇ <b>Data Mining, Teacher Assistant</b> Spring 2020<ul style="list-style-type: none"><li>• <b>University of Nevada, Las Vegas</b> Instructor: <b>Dr. Kazem Taghva</b></li></ul></li><li>◇ <b>Embedded &amp; Real-Time Systems, Teacher Assistant</b> Fall 2018<ul style="list-style-type: none"><li>• <b>Amirkabir University of Technology (Tehran Polytechnic)</b> Instructor: <b>Dr. Hamed Farbeh</b></li></ul></li></ul>
HONORS AND AWARDS	<ul style="list-style-type: none"><li>◇ <b>Top 50 start-ups</b> in GITEX, Dubai (CommentMiner) 2017</li><li>◇ <b>3<sup>rd</sup> place</b> in ElecomStars, Tehran (CommentMiner) 2017</li><li>◇ <b>1<sup>st</sup> place</b> in Sharif VC Cup, Tehran (CommentMiner) 2017</li><li>◇ Certificate of Attendance at <b>Deep Learning Summer School</b> 2018 Association for Computing Machinery (ACM) of University of Tehran</li><li>◇ Member of <b>Scientific Association and Olympiad Affairs</b> 2015 Amirkabir University of Technology</li><li>◇ Ranked top <b>0.2%</b> in University Entrance Nationwide Exam - Math. and Physics 2014 Among approximately <b>230000</b> applicants, Iran</li></ul>

	<ul style="list-style-type: none"> <li>◇ Ranked top <b>0.09%</b> in University Entrance Nationwide Exam - Foreign Languages 2014 Among approximately <b>129000</b> applicants, Iran</li> </ul>	
LECTURES AND PRESENTATIONS	<ul style="list-style-type: none"> <li>◇ Presentation on GAN June 2018 <i>Department of Biomedical Engineering, Amirkabir University of Technology</i> <ul style="list-style-type: none"> <li>• Based on Ian J. Goodfellow et al., "Generative Adversarial Nets". (Department of Computer Science and Operations Research, University of Montreal), IJCA Journal, Vol. 119 - Number 18, 2015</li> </ul> </li> <li>◇ Presentation on use of linear algebra for neural networks July 2018 <i>Department of Mathematics and Computer Science, Amirkabir University of Technology</i> <ul style="list-style-type: none"> <li>• Based on Herve Abdi, "Linear Algebra for Neural Networks". School of Human Development, The University of Texas at Dallas</li> </ul> </li> <li>◇ Presentation on mobile computers' energy optimization using user habits January 2017 <i>Department of Computer Engineering, Amirkabir University of Technology</i> <ul style="list-style-type: none"> <li>• Mainly based on Ismat Chaib Draa et al., "Sensing user context and habits for run-time energy optimization". EURASIP journal on Embedded Systems, Springer, 2016</li> </ul> </li> </ul>	
RELEVANT PROJECTS	<ul style="list-style-type: none"> <li>◇ <b>Implementation of a Convolutional and a Pooling Layer of a CNN on FPGA</b>, Amirkabir University of Technology Implemented the convolutional and the max pooling functions of CNN's using Xilinx Vivado High-Level Synthesis and ran this project on a ZYBO SoC board. This design achieved up to 30 times faster throughput relative to the software code on a CPU.</li> <li>◇ <b>Activity Recognition with Wearable Sensor Dataset in Spark Platform</b>, University of Nevada, Las Vegas Implemented scalable classification solutions (Multilayer Perceptron Network, Logistic Regression, and Decision Tree) using Spark libraries for motion data of elderly people in a room, (Python, Spark).</li> <li>◇ <b>Multithreaded Persian Short-Text Classification</b>, CommentMiner Implemented using two different algorithms: Max Entropy and Naive Bayes to classify Persian comments and short messages, (Java).</li> <li>◇ <b>Telegram Chat-bot for Automatic Question Answering</b>, CommentMiner Implemented a Telegram automatic bot using indexing and similarity checking on: <a href="#">Who Is Hosting Who FAQ</a> and on <a href="#">Question-Answer Jokes</a>, (C#).</li> <li>◇ <b>Coin Image Template Matching</b>, Amirkabir University of Technology Implemented using OpenMP and CUDA platforms to parallelize the matching algorithm and to enhance the performance on GPU and CPU, (C, C++).</li> <li>◇ <b>Hand-written Digit Image Generation</b>, Amirkabir University of Technology Implemented using a Generative Adversarial Network on MNIST dataset to generate new unseen digit images, (Python Keras package).</li> </ul>	
RELEVANT SKILLS	<ul style="list-style-type: none"> <li>◇ PROGRAMMING: Java, Python, C/C#, VHDL, Verilog, Assembly</li> <li>◇ TOOLS AND FRAMEWORKS: TensorFlow, MALLET, Keras, OpenMP, CUDA, Stanford NLP, polyglot, NLTK, Latex, Docker</li> <li>◇ WEB PROGRAMMING: Familiar with HTML, CSS, JavaScript, JQuery, NodeJS</li> <li>◇ CIRCUITS, SIMULATION AND ENGINEERING SOFTWARE: Matlab, PSpice, HSpice, Xilinx ISE, Model Sim SE, Xilinx Vivado, Altium Designer, CodeVision, Atmel Studio, Proteus</li> <li>◇ SCRIPTING: Bash, Matlab</li> <li>◇ OTHERS: Adobe InDesign, Adobe Photoshop, Microsoft Word, Microsoft Excel, Microsoft PowerPoint</li> </ul>	
REFERENCES	<ul style="list-style-type: none"> <li>◇ <b>Reza Safabakhsh</b> safa@aut.ac.ir Professor, Amirkabir University of Technology</li> <li>◇ <b>Hamed Farbeh</b> farbeh@aut.ac.ir Assistant Professor, Amirkabir University of Technology</li> </ul>	