

## Sina Mahdipour Saravani

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CONTACT	<i>E-mail:</i> <a href="mailto:mahdipou@unlv.nevada.edu">mahdipou@unlv.nevada.edu</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	<b>University of Nevada, Las Vegas</b> , Las Vegas, United States	
	<ul style="list-style-type: none"><li>◇ Ph.D. Computer Science, In Progress</li><li>• Cumulative Grade Average: <b>4</b></li></ul>	2019 - 2025
	<b>Amirkabir University of Technology (Tehran Polytechnic)</b> , Tehran, Iran	
	<ul style="list-style-type: none"><li>◇ B.Sc. Computer Systems Architecture, (Ranked 174 top Computer Science Universities in the World)</li><li>• Cumulative Grade Average: <b>3.31</b></li><li>• Upper-Division GPA: <b>3.63</b></li></ul>	2014 - 2019
	<b>Samii High School</b> , Rasht, Iran	
	<ul style="list-style-type: none"><li>◇ Diploma in Physics and Mathematics Discipline</li><li>• Cumulative Grade Average: <b>20/20</b></li></ul>	2010 - 2014
RESEARCH AND WORK EXPERIENCE	<ul style="list-style-type: none"><li>◇ <b>Graduate Assistant (Research), 2019, University of Nevada, Las Vegas</b><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, 2017-2018, CommentMiner, Tehran, Iran</b><ul style="list-style-type: none"><li>• Supervisors: <b>Mr. Asadi</b>,</li><li>• CommentMiner is a start-up working on a set of text analyzing services and intelligent chat bots. I spent one year there on research on different NLP tasks like dialogue systems, topic classification, profanity detection, NER, sentiment analysis, etc.</li></ul></li></ul>	
TEACHING EXPERIENCE	<b>University of Nevada, Las Vegas</b> , Las Vegas, USA	
	◇ <i>Teacher Assistant, Data Mining</i> , taught by <b>Dr. Kazem Taghva</b>	Spring 2020
	<b>Amirkabir University of Technology (Tehran Polytechnic)</b> , Tehran, Iran	
	◇ <i>Teacher Assistant, Embedded &amp; Real-Time Systems</i> , taught by <b>Dr. Hamed Farbeh</b>	Fall 2018
HONORS AND AWARDS	<ul style="list-style-type: none"><li>◇ <b>Top 50 start-ups</b> in GITEX, Dubai, 2017 (CommentMiner).</li><li>◇ <b>Third place</b> in ElecomStars, Tehran, 2017 (CommentMiner).</li><li>◇ <b>First place</b> in Sharif VC Cup, Sharif University of Technology, Tehran, 2017 (CommentMiner).</li><li>◇ Certificate of Attendance at <b>Deep Learning Summer School</b> from Association for Computing Machinery (ACM) of University of Tehran, 2018.</li><li>◇ Member of <b>Scientific Association and Olympiad Affairs</b> of Amirkabir University of Technology, 2015.</li></ul>	

	<ul style="list-style-type: none"> <li>◇ Ranked in top <b>0.2%</b> place among all applicants for the University Entrance Nationwide Exam (approximately <b>230000</b> applicants) in Math. and Eng. and in top <b>0.09%</b> place (among Approximately <b>129000</b> applicants) in Foreign Languages (English), Iran, 2014.</li> </ul>
LECTURES AND PRESENTATIONS	<ul style="list-style-type: none"> <li>◇ Presentation on GAN <i>Department of Biomedical Engineering, Amirkabir University of Technology, June 2018</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 <i>Department of Mathematics and Computer Science, Amirkabir University of Technology, July 2018</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 <i>Department of Computer Engineering, Amirkabir University of Technology, January 2017</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>Multithreaded Persian Short-Text Classification</b>, CommentMiner Implemented using two different algorithms: MaxEnt and Naive Bayes, on the datasets mentioned above with the accuracy of 70%, (Java).</li> <li>◇ <b>Telegram Chat-bot for Automatic Question Answering</b>, CommentMiner Implemented as a first model 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>Template Matching</b>, Multicore Course Project at Amirkabir University of Technology Implemented using both OpenMP and CUDA to parallelize the algorithm and to enhance the performance, (C, C++).</li> <li>◇ <b>Hand-written Digit Image Generation</b>, Computational Intelligence Course Project at Amirkabir University of Technology Implemented using a simple Generative Adversarial Network on MNIST dataset, (Python Keras package).</li> <li>◇ <b>Hand-written Digit Image Classification</b>, CommentMiner Implemented using a Convolutional Neural Network on MNIST dataset, (Python Tensorflow package).</li> <li>◇ <b>Sequential MNIST Classification</b>, <a href="#">Deep Learning Summer School</a> at <a href="#">University of Tehran</a> Implemented using a Recurrent Neural Network on sequential images (28 sequences) of MNIST dataset, (Python Keras package).</li> </ul>
RELEVANT SKILLS	<ul style="list-style-type: none"> <li>◇ PROGRAMMING: Java (Proficient), Python (Proficient), C/C#/C++ (Proficient)</li> <li>◇ TOOLS AND FRAMEWORKS: TensorFlow, MALLET, Keras, OpenMP, CUDA, Stanford NLP, polyglot, NLTK, Latex, Docker</li> <li>◇ SCRIPTING: Bash, Matlab</li> </ul>
REFERENCES	<ul style="list-style-type: none"> <li>◇ <b>Kazem Taghva</b>, Professor <span style="float: right;">kazem.taghva@unlv.edu</span></li> <li>◇ <b>Reza Safabakhsh</b>, Professor <span style="float: right;">safa@aut.ac.ir</span></li> <li>◇ <b>Hamed Farbeh</b>, Assistant Professor <span style="float: right;">farbeh@aut.ac.ir</span></li> </ul>
EXHAUSTIVE VER.	OF MY CV, INCLUDING OTHER PROJECTS AND EXTRA-CURRICULAR ACTIVITIES, IS <a href="#">AVAILABLE HERE</a> .