

Sina Mahdipour Saravani

CONTACT	<i>E-mail:</i> mahdipou@unlv.nevada.edu <i>Homepage:</i> sinamahdipour.github.io	
FIELDS OF INTEREST	<ul style="list-style-type: none">◇ Natural Language Processing◇ Deep Learning, Machine LearningChat-bots, Text Generation, Question Answering	
EDUCATION	University of Nevada, Las Vegas , Las Vegas, United States	
	<ul style="list-style-type: none">◇ Ph.D. Computer Science, In Progress• Cumulative Grade Average: 4	2019 - 2025
	Amirkabir University of Technology (Tehran Polytechnic) , Tehran, Iran	
	<ul style="list-style-type: none">◇ B.Sc. Computer Systems Architecture, (Ranked 174 top Computer Science Universities in the World)• Cumulative Grade Average: 3.31• Upper-Division GPA: 3.63	2014 - 2019
	Samii High School , Rasht, Iran	
	<ul style="list-style-type: none">◇ Diploma in Physics and Mathematics Discipline• Cumulative Grade Average: 20/20	2010 - 2014
RESEARCH AND WORK EXPERIENCE	<ul style="list-style-type: none">◇ Graduate Assistant (Research), 2019, University of Nevada, Las Vegas<ul style="list-style-type: none">• Supervisor: Dr. Kazem Taghva• Natural Language Processing; Currently working on Named Entity Recognition for Persian, and Sentence Matching for English.◇ Research Assistant and AI Developer, 2017-2018, CommentMiner, Tehran, Iran<ul style="list-style-type: none">• Supervisors: Mr. Asadi,• 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.	
TEACHING EXPERIENCE	University of Nevada, Las Vegas , Las Vegas, USA	
	◇ <i>Teacher Assistant, Data Mining</i> , taught by Dr. Kazem Taghva	Spring 2020
	Amirkabir University of Technology (Tehran Polytechnic) , Tehran, Iran	
	◇ <i>Teacher Assistant, Embedded & Real-Time Systems</i> , taught by Dr. Hamed Farbeh	Fall 2018
HONORS AND AWARDS	<ul style="list-style-type: none">◇ Top 50 start-ups in GITEX, Dubai, 2017 (CommentMiner).◇ Third place in ElecomStars, Tehran, 2017 (CommentMiner).◇ First place in Sharif VC Cup, Sharif University of Technology, Tehran, 2017 (CommentMiner).◇ Certificate of Attendance at Deep Learning Summer School from Association for Computing Machinery (ACM) of University of Tehran, 2018.◇ Member of Scientific Association and Olympiad Affairs of Amirkabir University of Technology, 2015.	

	<ul style="list-style-type: none"> ◇ Ranked in top 0.2% place among all applicants for the University Entrance Nationwide Exam (approximately 230000 applicants) in Math. and Eng. and in top 0.09% place (among Approximately 129000 applicants) in Foreign Languages (English), Iran, 2014.
LECTURES AND PRESENTATIONS	<ul style="list-style-type: none"> ◇ Presentation on GAN <i>Department of Biomedical Engineering, Amirkabir University of Technology, June 2018</i> <ul style="list-style-type: none"> • 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 ◇ 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"> • Based on Herve Abdi, "Linear Algebra for Neural Networks". School of Human Development, The University of Texas at Dallas ◇ 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"> • 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
RELEVANT PROJECTS	<ul style="list-style-type: none"> ◇ Implementation of a Convolutional and a Pooling Layer of a CNN on FPGA, 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. ◇ Multithreaded Persian Short-Text Classification, CommentMiner Implemented using two different algorithms: MaxEnt and Naive Bayes, on the datasets mentioned above with the accuracy of 70%, (Java). ◇ Telegram Chat-bot for Automatic Question Answering, CommentMiner Implemented as a first model using indexing and similarity checking on: Who Is Hosting Who FAQ and on Question-Answer Jokes, (C#). ◇ Template Matching, 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++). ◇ Hand-written Digit Image Generation, Computational Intelligence Course Project at Amirkabir University of Technology Implemented using a simple Generative Adversarial Network on MNIST dataset, (Python Keras package). ◇ Hand-written Digit Image Classification, CommentMiner Implemented using a Convolutional Neural Network on MNIST dataset, (Python Tensorflow package). ◇ Sequential MNIST Classification, Deep Learning Summer School at University of Tehran Implemented using a Recurrent Neural Network on sequential images (28 sequences) of MNIST dataset, (Python Keras package).
RELEVANT SKILLS	<ul style="list-style-type: none"> ◇ PROGRAMMING: Java (Proficient), Python (Proficient), C/C#/C++ (Proficient) ◇ TOOLS AND FRAMEWORKS: TensorFlow, MALLET, Keras, OpenMP, CUDA, Stanford NLP, polyglot, NLTK, Latex, Docker ◇ SCRIPTING: Bash, Matlab
REFERENCES	<ul style="list-style-type: none"> ◇ Kazem Taghva, Professor kazem.taghva@unlv.edu ◇ Reza Safabakhsh, Professor safa@aut.ac.ir ◇ Hamed Farbeh, Assistant Professor farbeh@aut.ac.ir