

Sina Mahdipour Saravani

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

	<ul style="list-style-type: none"> ◇ Ranked top 0.09% in University Entrance Nationwide Exam - Foreign Languages 2014 Among approximately 129000 applicants, Iran 	
LECTURES AND PRESENTATIONS	<ul style="list-style-type: none"> ◇ Presentation on GAN June 2018 <i>Department of Biomedical Engineering, Amirkabir University of Technology</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 July 2018 <i>Department of Mathematics and Computer Science, Amirkabir University of Technology</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 January 2017 <i>Department of Computer Engineering, Amirkabir University of Technology</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. ◇ Activity Recognition with Wearable Sensor Dataset in Spark Platform, 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). ◇ Multithreaded Persian Short-Text Classification, CommentMiner Implemented using two different algorithms: Max Entropy and Naive Bayes to classify Persian comments and short messages, (Java). ◇ Telegram Chat-bot for Automatic Question Answering, CommentMiner Implemented a Telegram automatic bot using indexing and similarity checking on: Who Is Hosting Who FAQ and on Question-Answer Jokes, (C#). ◇ Coin Image Template Matching, 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++). ◇ Hand-written Digit Image Generation, Amirkabir University of Technology Implemented using a Generative Adversarial Network on MNIST dataset to generate new unseen digit images, (Python Keras package). 	
RELEVANT SKILLS	<ul style="list-style-type: none"> ◇ PROGRAMMING: Java, Python, C/C#, VHDL, Verilog, Assembly ◇ TOOLS AND FRAMEWORKS: TensorFlow, MALLET, Keras, OpenMP, CUDA, Stanford NLP, polyglot, NLTK, Latex, Docker ◇ WEB PROGRAMMING: Familiar with HTML, CSS, JavaScript, JQuery, NodeJS ◇ CIRCUITS, SIMULATION AND ENGINEERING SOFTWARE: Matlab, PSpice, HSpice, Xilinx ISE, Model Sim SE, Xilinx Vivado, Altium Designer, CodeVision, Atmel Studio, Proteus ◇ SCRIPTING: Bash, Matlab ◇ OTHERS: Adobe InDesign, Adobe Photoshop, Microsoft Word, Microsoft Excel, Microsoft PowerPoint 	
REFERENCES	<ul style="list-style-type: none"> ◇ Reza Safabakhsh, Professor ◇ Hamed Farbeh, Assistant Professor 	<p>safa@aut.ac.ir farbeh@aut.ac.ir</p>