## Sina Mahdipour Saravani

CONTACT	E-mail: sinamps@colostate.edu Homepage: sinamps.github.io		
FIELDS OF INTEREST	<ul> <li>Neural Language Representation, Interpretability in NLP, Figurative Language Identification, Commonsense Reasoning, Applications in Social Media Analysis</li> <li>Natural Language Processing, Deep Learning and Machine Learning for NLP</li> </ul>		
EDUCATION	Colorado State University, Fort Collins, United States  ⋄ M.S., Computer Science, In Progress  • Cumulative Grade Average: 4/4		
	Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran  ⋄ B.Sc., Computer Systems Architecture  • Cumulative Grade Average: 16.61/20		
PUBLICATIONS AND MANUSCRIPTS	Sina Mahdipour Saravani, Ritwik Banerjee, and Indrakshi Ray. 2021. An Investigation into the Contribution of Locally Aggregated Descriptors to Figurative Language Identification. Accepted in Workshop on Insights from Negative Results in NLP co-located with Conference on Empirical Methods in Natural Language Processing (EMNLP 2021 Workshop).		
	Sina Mahdipour Saravani, Indrajit Ray, and Indrakshi Ray. 2021. Automated Identification of Social Media Bots using Deepfake Text Detection. Under review in <i>International Conference on Information Systems Security (ICISS 2021)</i> .		
RESEARCH AND WORK  EXPERIENCES  Research Assistant, Colorado State University, USA Supervisors: Dr. Indrakshi Ray and Dr. Ritwik Banerjee Working on various NLP projects including the application of VLADs to Ni casm detection in Twitter), claim/counterclaim detection in YouTube with COVID-19 data, access control policy extraction from natural language documachine translation for low-resource languages.			
	<ul> <li>Graduate Assistant, University of Nevada, Las Vegas, USA</li> <li>Supervisor: Dr. Kazem Taghva</li> <li>Worked on Named Entity Recognition for Persian using a BiLSTM-CRF architecture.</li> </ul>		
	<ul> <li>NLP Developer and Research Assistant, CommentMiner, Iran</li> <li>Supervisor: Mr. Ahmad Asadi</li> <li>Worked in CommentMiner start-up on developing a set of text processing micro services and a question answering chat bot for Persian language. Services included short-text topic classification, profanity detection, NER, and sentiment analysis.</li> </ul>		
TEACHING EXPERIENCES	<ul> <li>♦ Temporary Teaching Faculty, University of Nevada, Las Vegas</li> <li>• Computer Science II (CS202)</li> </ul>		
	<ul> <li>♦ Teaching Assistant, University of Nevada, Las Vegas</li> <li>• Data Mining (CS458/658)</li> <li>Instructor: Dr. Kazem Taghva</li> </ul>		
	<ul> <li>Teaching Assistant, Amirkabir University of Technology (Tehran Polytechnic) Fall 2018</li> <li>Embedded &amp; Real-Time Systems         Instructor: Dr. Hamed Farbeh     </li> </ul>		
Professional Services	♦ ICDCS 2021, Reviewer 2021		
	♦ <b>TheWebConf 2021</b> , Reviewer 2021		

	♦ ACISP 2021, Reviewer	2021
	♦ IEEE S&P 2020, Reviewer	2020
	♦ IEEE TPS 2020, Reviewer	2020
	<ul> <li>Scientific Association and Olympiad Affairs Office of Computer Engineering</li> <li>ment at Amirkabir University of Technology, Industry Relations Officer</li> </ul>	ng Depart- 2015
RELEVANT PROJECTS	Investigation into the Application of VLAD to NLP for Figurative Language cation, Colorado State University Investigated the application and effectiveness of vector of locally aggregate tors on top of Transformer-based language representation layers. Studied iro detection in Twitter as a use case.	ed descrip-
	<ul> <li>Deepfake Text Detection for Social Media Bot Identification, Colorado State         Implemented Transformer-based models to detect bot-generated text on a deep         resulting in performance improvements by using domain-specific pre-trained     </li> <li>Claim/Counterclaim Pair detection in YouTube Comments, Colorado State U         Currently designing a framework to extract claims and counterclaims from video comments by claim detection, stance detection, and NLI.     </li> </ul>	pfake dataset I models. Jniversity
	Machine Translation for Similar Low-Resource Language Pairs with Low Colorado State University     Currently studying the potential benefit of using load words in similar latin incorporate that knowledge into a machine translation framework.	
	<ul> <li>Extracting Access Control Policies from Natural Language Documents, Col- University</li> <li>Currently studying a transformer-based semantic role labeling approach for access control policies and representing them in NGAC graphs.</li> </ul>	
	Implementation of Convolutional and Pooling Layers of a CNN on FPGA, University of Technology Implemented the convolutional and the max pooling functions of CNNs us Vivado High-Level Synthesis and ran this project on a ZYBO SoC board. To achieved up to 30 times faster throughput relative to the software code on a Cybern Code.	sing Xilinx This design
	Activity Recognition with Wearable Sensor Dataset in Spark Platform, Un Nevada, Las Vegas Implemented scalable classification solutions (Multilayer Perceptron Network Regression, and Decision Tree) using Spark libraries for motion data of elder in a room, (Python, Spark).	niversity of rk, Logistic
HONORS AND AWARDS	♦ Fully-funded Research Assistantship, Colorado State University	2020
	<ul> <li>UNLV Access Grant, University of Nevada, Las Vegas</li> </ul>	2020
	♦ Fully-funded Graduate Assistantship, University of Nevada, Las Vegas	2019
	♦ <b>Top 50 start-ups</b> in GITEX start-ups competition, UAE (CommentMiner)	2017
	♦ 3 <sup>rd</sup> place in ElecomStars start-ups competition, Iran (CommentMiner)	2017
	♦ 1 <sup>st</sup> place grant in Sharif VC Cup start-ups competition, Iran (CommentMiner)	2017
	♦ Ranked top 0.2% in Nationwide University Entrance Exam in Math. & Physics	Iran 2014

- RELEVANT SKILLS ◇ PROGRAMMING: Python, Java, C/C++, C#
  - ♦ TOOLS AND FRAMEWORKS: PyTorch, Keras, TensorFlow, Hugging Face Transformers, MALLET, Stanford NLP, polyglot, NLTK, OpenMP, CUDA, Docker
  - ♦ OTHERS: LATEX, Bash, Vivado and Hardware Design Softwares, Basic Web Programming

Available upon request. REFERENCES