Pooneh Mousavi

Contact Information	Github:poonehmousaviE-mail:mousavi.pooneh@gmail.comLinkedin:pooneh-mousavi-linkdinWebpage:pooneh-mousavi		
EDUCATION	Ph.D. Candidate in Computer Science2022 - presentConcordia University and Mila, Montreal, Quebec, Canada2022 - presentGPA: 4 out of 4Mentor: Mirco RavanelliResearch Interests: Multimodal Foundation Models, Self-supervised learning, Speech		
	processing		
	M.S. in Computer Science2018 - 2021University of Texas at Dallas, Dallas, TXGPA: 3.9 out of 4		
	BSc. in Computer Engineering 2009 - 2013 K. N. Toosi University of Technology (KNTU), Tehran, Iran		
PUBLICATION	DN How Should We Extract Discrete Audio Tokens from Self-Supervised Models? Po Mousavi, Jarod Duret and , Salah Zaiem, Luca Della Libera, Artem Ploujnikov, G Subakan, Mirco Ravanelli, pdf (Proc. of Interspeech, 2024, oral session).		
	DASB - Discrete Audio and Speech Benchmark. Pooneh Mousavi , Luca Della Libera, Jarod Duret, Artem Ploujnikov, Cem Subakan, Mirco Ravanelli, pdf (Under Review).		
	CL-MASR: A Continual Learning Benchmark for Multilingual ASR. Luca Della Libera [*] , Pooneh Mousavi [*] , Salah Zaiem, Cem Subakan, Mirco Ravanelli, pdf.		
	WOODS: Benchmarks for Out-of-Distribution Generalization in Time Series. Jean-Christophe Gagnon-Audet, Kartik Ahuja, Mohammad Javad Darvishi Bayazi, Pooneh Mousavi, Guillaume Dumas, Irina Rish (TMLR 2023), pdf.		
	Detecting Hashtag Hijacking for Hashtag Activism. Pooneh Mousavi , Jessica Ouyang (NLP for Positive Impact (EMNLP 2021)), pdf.		
	"Please Donate for the Affected": Supporting Emergency Managers in Finding Volun- teers and Donations in Twitter Across Disasters. Pooneh Mousavi , Cody Buntain (ISCRAM 2022), pdf.		
RESEARCH EXPERIENCE	Research AssistantSep 2022 - NowMILA - Quebec AI Institute, Concordia UniversityMentor: Dr. Mirco Ravanelli		
	 Contributed to SpeechBrain project, a popular open-source Conversational AI toolkit, for ASR CommonVoice recipes, dialogue systems, interface with LLMs including LLama2 and GPT, discrete audio representations and multilingual ASR continual learning benchmark. Working on discrete self-supervised learning, diffusion models for speech tasks, 		
	• working on discrete sen-supervised learning, diffusion models for speech tasks, and multimodal foundation models.		

Machine Learning Scientist in Residence

Draft & Goal, MILA - IVADO

Mentor: Dr. Eva Portlance

• Efficient fine-tuning LLM like Falcon and Llama2 for specific applications using QLoRA

Research Scientist

The Ubiquitous Knowledge Processing Lab, Technische Universität Darmstadt, Germany

Mentor: Prof. Dr. Iryna Gurevych

- Applying ML and NLP for "AI In Digital Mental Health" project.
- Severely missing multimodal data for effective analytics

Graduate Research Assistant

University of Texas at Dallas, Dallas, TX Mentor : Dr. Jessica Ouyang

• Working with Social media data and Natural Language Processing techniques for detecting hashtag hijacking on Twitter.

PROFESSIONAL EXPERIENCE	 Data Science - Technology Solutions Intern Pioneer Natural Resources, Dallas, TX,US Designed an algorithmic framework for real time anomaly d the Electric Submersible Pump on time-series data using formers and AR models 		
	 Full Stack Developer, Technical Lead Dotis Arian Gheshm (Dotin), Tehran, Iran Designed and implemented Payment Switch Service Provuser interface and API for clients and external applications with 10M Clients using MicroServices Architecture and Application (RIA) 	th the TPS of 100	
WORKSHOPQiskit Quantum Machine Learning Summer School20PARTICIPATION Qiskit Global Summer School 2021, Online			
	The Machine Learning Summer School Max Planck Institute for Intelligent Systems, Tübingen, Germany	2020	
	The Summer Institutes in Computational Social Science Rutgers University, New Brunswick, NJ	2020	
TEACHING EXPERIENCE	• Teaching Assistant - Conversational AI, Concordia University	2023-2024	
	• Teaching Assistant, University of Texas at Dallas (UTD)	2018-2020	
LANGUAGES, TECHNOLOGIE	• Programming Languages: Python • Typescript • OCaml • Javascript • Java • SQL	C++ • Scala •	

 Technologies: PyTorch • Keras/TensorFlow • Git • Docker • Bazel • Docker • Kubernetes • Jenkins • Maven • Ansible

10/2021 - 08/2022

2018 - 2024