Mahsa Forouzesh





(+41) 0787181640

mahsa.forouzesh93@gmail.com

/in/mahsa-forouzesh/

mahf93

Education

- 2017-present Ph.D. in Computer Science EPFL Specialization: Generalization Ability of Deep Neural Networks Expected Graduation: Summer 2023
- 2012-2016
 B.Sc. in Electrical Enginnering
 University of Tehran

 GPA: 18.22/20 (3.82/4) GPA of last 2 years: 18.87/20 (3.96/4)

Experience

May 2022 - September 2023	Software Engineering Internship	Google, Zurich, Switzerland				
	 Building offensive image classifiers using OCRs Resulting in a headroom reduction of 38.8^o Tools: Python, FlumeC++, TensorFlow, Co 	image embeddings and % lab, Numpy, GoogleSQL				
2017-2022	Selected Projects					
	 Developed and designed novel metrics to predict overfitting in neural networks resulting in two publications in top-tier Machine Learning conferences Proposed an extension of the CMOW model for Sentence embedding Implemented MeProp using Pytorch Designed a recommender system using Tensorflow Implemented the elastic averaging SGD algorithm using Tensorflow 					
2020-2022	Master and Bachelor Semester Project Sup	ervisions EPFL				
	 Project design and working with students for the following projects: Studying variants of MeProp, NAS without Training using Sensitiv- ity, and Early Stopping for Time-series Applications 					
2021-2022	Conference Paper Review for NeurIPS 2022 a highlighted reviewer), and ICML 2022 con	., ICLR 2022 (selected as ferences				
2018-2022	Teaching Assistant for Courses: Machine leadents, Dynamical system theory for engineer tics, Stochastic models in communication, a	arning with over 500 stu- rs, Probability and statis- nd Mise à niveau (MAN)				

Programming

Expert:	Pyt	hon	•	PyTor	ch	•	Tens	sorFlow	•	Pand	las •	Numpy	
Good: C+	+	•	MATI	LAB	•	С	•	SQL	•	Flume	•	вт _Е х	
Medium: SIMULINK • Arduino • HSpice • Verilog • Multisim • NS2 • Wireshark													

Publications

Leveraging Unlabeled Data to Track Memorization (ICLR 2023) Mahsa Forouzesh, Hanie Sedghi, Patrick Thiran Disparity Between Batches as a Signal for Early Stopping (ECML/PKDD 2021) Mahsa Forouzesh, Patrick Thiran Generalization Comparison of Deep Neural Networks via Output Sensitivity (Oral Presentation at ICPR 2020) Mahsa Forouzesh, Farnood Salehi, Patrick Thiran