Farshad Sangari

COMPUTER VISION RESEARCHER · STUDENT

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"Be the change you want to see in the world."

Education

College of Electrical and Computer Engineering, University of Tehran

Tehran, Iran

MSc: Computer Engineering - Artificial Intelligence

Sep. 2021 - Now

• Cum. GPA: 18.73/20(3.89/4)

K.N.Toosi University of Technology

Tehran, Iran

BSc: Electrical Engineering - Telecommunication

Sep. 2017 - Sep. 2021

Cum. GPA: 17/20(3.64/4)Thesis grade: 20/20(4/4)

Research Interests

Generative models

Explainable A.I.

Robustness

Data Science

Selected Courses

2023	Trustworthy AI , 20/20(4/4)	University of Tehran
2023	Advanced Robatics, 19.24/20(4/4)	University of Tehran
2022	Deep Generative models, 19.8/20(4/4)	University of Tehran
2022	Deep Learning and Applications, 18/20(4/4)	University of Tehran
2021	Machine Learning, 19.2/20(4/4)	University of Tehran
2022	Statistical Inference, 18.4/20(4/4)	University of Tehran
2021	Data science , 18.75/20(4/4)	University of Tehran
2018	Linear Algebra , 18.5/20(4/4)	K.N.Toosi University
2018	Basics of Optimization, 19.5/20(4/4)	K.N.Toosi University

Research Experience _____

(University of Tehran) Machine learning and computational modeling lab

Tehran, Iran

INTERPRETABLE REPRESENTATION LEARNING VIA GENERATIVE MODELS: BRIDGING UNDERSTANDING AND COMPLEXITY

Feb. 2022

• Supervisors: Dr. Reshad Hosseini - Prof. Babak N. Araabi

Internships _____

Telecommunications service provider

Birjand, Iran

TELECOMMUNICATION SYSTEMS

Jul. 2021

Teaching Experience

Sep. 2023 (Lead TA)Deep Generative models, By Dr. Mostafa Tavassolipour, Dr. Mohammad Amin Sadeghi

Jan. 2023 (Lead TA)Deep Learning with Applications, By Dr. Reshad Hosseini

Apr. 2023 PyTorch tutorial,

Apr. 2023 Pandas and Matplotlib tutorial,

University of Tehran
University of Tehran
Youtube course
Youtube course

AUGUST 23, 2023 FARSHAD SANGARI · RESUME

Notable Academic Projects

Trustworthy A.I. Tehran, Iran

TAUGHT BY DR. MOSTAFA TAVASSOLIPOUR, DR. MOHAMMAD AMIN SADEGHI

Nov. 2023

Nov. 2023

- Robust Representation using Angular loss
- Enhancing Model Interpretability by leveraging LIME and SHAP for Comprehensive Explanations
- Out-of-Distribution Detection: Enhancing Model Robustness and Generalization

Deep Generative models Tehran, Iran

Taught by Dr. Mostafa Tavassolipour, Dr. Mohammad Amin Sadeghi

- RealNVP implementation
- Score matching network Implementation
- Diffusion model Implementation
- VAE and its variations Implementation
- RealNVP implementation

Deep Learning and Applications

Tehran, Iran Nov. 2023

Nov. 2023

TAUGHT BY DR. RESHAD HOSSEINI

- Deep Fully connected network implementation(numpy)
- Saliency map prediction using deep neural network
- Deep Fully connected network implementationInverting visual representations for Convolutional Networks.
- Medical image segmentation Using U-net architecture
- Part of speech tagging for Persian Language using deep recurrent model
- Implementing Hubert architecture for Automatic Speech Recognition
- Replicate "DeepGUM: Learning Deep Robust Regression with a Gaussian-Uniform Mixture Model" paper
- Classification and clustering of Iranian instrument genres with classical machine learning methods
- Implementation of Feature Selection Algorithm for Enhanced Performance

Data Science Tehran, Iran

TAUGHT BY DR. MOHAMMAD AMIN SADEGHI

- Analyse Coronavirus infection · Amazon scraper for laptop
- · Analysis of Alibaba vs MrBilit tickets' price
- Web Scraping and Data cleaning: Obtaining Laptop Listings from Digikala

Honors & Awards

Sep. 2021 Ranked 30th among +20000 in the National Master Entrance Exam,

Aug. 2021 4th Rank among all Telecommunication Engineering students at K.N.Toosi University,

Aug. 2017 Among the top 1% of Iran Universities Entrance Exam,

Technical skills

Programming Languages Python, Matlab,R, C++, SQL, Javascript, HTML, CSS

> **Deep Learning** PyTorch, Tensorflow, Pandas, NumPy, Scikit-Learn

Operating Systems Linux (Specially Ubuntu), Windows

> Database MySQL, Postgres

Soft Skills Team Work, Problem-Solving, Time Management, Adaptability/Flexibility Languages Persian(Native), English (TOEFL IBT exam will be taken on Nov. 2023)

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