Farshad Sangari Abiz

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Education

- **University of Tehran** — Tehran, Iran
  MSc: Comptuter Engineering - Artificial Intelligence — *September 2021 - Present*
- **K.N.Toosi University of Technology** — Tehran, Iran
  BSc: Electrical Engineering - Telecommunication — *September 2017 - September 2021*
  ***GPA:** 3.64/4 **Thesis grade:** 4/4*

Research Interests

- Representation Learning
- Robustness
- Generative models
- Computer vision
- Data Science

Research Experience

- **Machine learning and computational modeling** — University of Tehran
  Disentanglement representation learning — *December 2021 - Present*
  ***Supervisor:** Dr. Reshad Hosseini - Prof. Babak N Araabi*

Teaching Experience

- **Teaching Assistant(Lead)** — University of Tehran
  Deep leaning and applications(by Dr. Reshad Hosseini) — *Spring 2023*

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Technical Skills

- **Programming:** Python, Matlab,R,C++
- **Software and design tools:** Linux,Git,LaTeX
- **Packages:** Scikit-Learn, Pytoch, Tensorflow/Keras, Opencv, Pandas, Numpy,
- **Language:** Persian(Native), English(Fluent)

Honors and Awards

- Ranked 40th among +20000 in the National Master Entrance Exam — *September 2021*
- 4th Rank among all Telecommunication Engineering students at K.N.Toosi University — *August 2021*
- Among the top 1% of Iran Universities Entrance Exam — *August 2017*

Selected Courses

- Trustworthy A.I(In Progress)
- Advanced Robotics(In Progress)
- Generative models and probabilistic graphical models
- Statistical Inference
- Deep leaning and applications
- Cognitive Science
- Machine learning
- Data Analytics
- Basics of Optimization
- Artificial Intelligence
- Linear Algebra
- Signal and System Analysis
- Linear Control System

Selected Course Projects

- Trustworthy A.I
  - ***Robust Representation using Angular loss***
- Generative models
  - ***RealNVP implementation***
  - ***Score matching network implementation***
  - ***Diffusion model implementation***
  - ***VAE and it's variations implementation***
- Machine Learrning and Deep Learning
  - ***RealNVP implementation***
  - ***Deep Fully connected network implementation(numpy)***
  - ***Saliency map prediction using deep nerual network.***
  - ***Inverting 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.***
- Data Science
  - ***Analyse Corona virus infection***
  - ***Amazon scraper for laptop***
  - ***Analysis of Alibaba vs MrBilit tickets' price***