Mohammad Amin Faraji

MASTER STUDENT · MECHANICAL ENGINEERING · UNIVERSITY OF TEHRAN

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Research Interests

Machine Learning, Machine Vision, Autoencoders, Optimization, Auxetic Structures

Education

University of Tehran   *Tehran, Iran*
MS IN MECHANICAL ENGINEERING   *2021*
• Advisor: Alireza Daneshmehr

Bu-Ali Sina University   *Hamedan, Iran*
BS IN MECHANICAL ENGINEERING   *2019*

Professional Experience

05/2017-present   **Co-Founder of Persian Revolution Slider - <u>Revslider.ir</u>**

• The objective is to provide website designers with a tool to design their website and landing pages.

Teaching Experience

2018   **Dynamics of machinery**, Teaching Assistant   *BASU*

2021   **Artificial Intelligence**, Teaching Assistant   *UT*

Publications

PEER-REVIEWED JOURNAL AND CONFERENCE PAPERS

Computational study on a DAH auxetic structure manufactured by corrugated sheets
Mohammad Amin Faraji, Hashem Mazaheri - International Conference on Manufacturing Engineering (ICME 2018) @ Tarbiat Modares University

Selected Projects

Debiasing Facial Detection Systems

• A facial detection model that learns the latent variables and mitigating biases by resampling the training data

Facial Expression Recognition with Keras

• Classifying faces based on the emotion shown in the facial expression using OpenCV and CNNs then deploying model on the web using FLASK

Dimensionality Reduction using an Autoencoder

• Part of the Coursera guided project, the objective is to reduce the dimensionality of input data using an Autoencoder

Online Courses

Coursera

- Machine Learning, Improving Deep Neural Networks, Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Convolutional Neural Networks in TensorFlow, DeepLearning.AI TensorFlow Developer

Kaggle

- Intermediate Machine Learning, Feature Engineering

Honors and Awards

2014	**Ranked in top 0.5% students**, Nationwide Universities Entrance Exam among more than 400000 attendance.
2019	**Full Scholarship for graduate study**, UT
2014	**Full Scholarship for undergraduate study**, BASU

Skills

Software Knowledge

- MATLAB
- ABAQUS
- Adobe Photoshop
- Microsoft Office Collection

Programming Skills

- Advance Python
- FORTRAN
- C/ C++ (Basic)
- HTML / CSS

Artificial Intelligence knowledge

- Relative passed university and online learning platforms courses
- Familiar with AI programming libraries in python (TensorFlow, SKLearn, etc.)

Languages

- **Persian**   Native speaker
- **English**   Advanced
    - o   IELTS exam to be taken soon