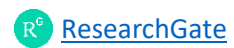


Parsa Mohammadi | Curriculum Vitae

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🌐 <https://parsam.eu.pythonanywhere.com>

✉ ParsaMohammadi@aut.ac.ir



EDUCATION

- **Amirkabir University of Technology (AUT)**, Tehran, Iran September 2020 – Present
 - B.S. in Electrical Engineering
 - Ranked within the top 10% of the Electrical Engineering department
 - Ranked within the top 1% of the Iranian University Entrance exam
- **Shahid Beheshti**, Kermanshah, Iran September 2016 – September 2020
 - **National Organization for Development of Exceptional Talents (NODET)**
 - GPA: 18.87 out of 20.00
 - Ranked within the top 2% of the Nationwide NODET Entrance exam

RESEARCH INTERESTS

- Computer Vision
- Signal Processing
- Deep Learning
- Image Processing

EXPERIENCES

- **Teaching Assistant** February 2023 – Present
Amirkabir University of Technology (AUT), Tehran, Iran
Course: “Linear Control Systems - Electrical Engineering”
 - Assisted students by solving sample questions and guiding them in the lesson.
 - Taught linear control topics related MATLAB and Simulink.
 - Provided education material, including projects and weakly homework.*- Supervisor: Dr. A. Suratgar (Amirkabir University of Technology, Tehran, Iran)*
- **Research Assistant** December 2021 – Present
Iran's National Elites Foundation (INEF), Tehran, Iran
Project: “Data-driven Maintenance of Urban Infrastructure in Smart City”
 - Using Random Forest, K-means algorithms and Neural Networks to reduce the cost of maintenance and repair of power networks
 - Create Decision Support web application for control centers using Django
 - Implement trained Machine Learning models on the web application**Publication:**
 - Tamanaeifar, M. H., Nasiri, M. G., **Mohammadi, P.**, Haghshenas, M., Ghadamgahi, M. M., Alimadady, M., Fereidunian, A. (2022, September). *Collaborative Design and Development of Integrated Preventive Maintenance Decision Support Software for Smart City Infrastructure based on Accumulated Data Analytics* [Paper presentation]. 8th International Conference on Industrial and Systems Engineering, Mashhad, Iran. (<https://civilica.com/doc/1537570>)*- Supervisor: Dr. Alireza Fereidunian (K. N. Toosi University of Technology, Tehran, Iran)*

Project: “Prediction of Eye Fixation for Neuromarketing”

- Collect data and create a human eye fixation dataset by concocting various experiments.
- Implementation of neural network models to predict eye fixation and advertising effectiveness.

- Supervisor: Dr. Mohammad Ali Akhaey (University of Tehran, Tehran, Iran)

SKILLS

- Programming Skills:
 - Python
 - TensorFlow
 - NumPy
 - Pandas
 - OpenCV
 - Matplotlib
 - Sklearn
 - Django
 - C/C++
 - HTML/CSS
 - Matlab
 - Electrical Libraries
 - Simulink
 - VHDL
 - Verilog
- ML/AI Skills:
 - Regression
 - Classification
 - Decision tree
 - SVM
 - Clustering
 - PCA
 - CNN
 - Residual Network
 - Inception Network
 - MobileNet
 - EfficientNet
 - Transfer Learning
 - Object Detection
 - U-Net
 - Style Transfer
 - Siamese Network
 - RNN
 - LSTM
 - NLP
- Others:
 - Linux
 - Ubuntu 20.04
 - Git
 - Google Colab
 - Docker
 - ISE Design Suite
 - Vivado Design Suite
 - Proteus 8

CERTIFICATED COURSES

- **Machine Learning**
 - Offered By: Stanford University
 - Platform: Coursera
 - Instructor: Dr. Andrew Ng
- **Deep Learning Specialization**
 - **Neural Networks and Deep Learning** (First course)
 - **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** (Second course)
 - **Structuring Machine Learning Projects** (Third course)
 - **Convolutional Neural Networks** (Fourth course)
 - **Sequence Models** (Fifth course)
 - Offered By: DeepLearning.AI
 - Platform: Coursera
 - Instructor: Dr. Andrew Ng

- **Django for Everybody Specialization**
 - **Web Application Technologies and Django (First course)**

Offered By: University of Michigan

Platform: Coursera

Instructor: Dr. Charles Severance

- **MATLAB for beginners**

Offered By: MathWorks

Platform: MatlabAcademy

Instructors: MathWorks Team

VOLUNTEERING EXPERIENCES

- **Amirkabir University of Technology (AUT)** March – September 2021
Member of “Amirkabir 2021 International Summer School,” Executive Team:
Tasks:
 - Invited Dr. Larry Cheng from Penn State University
 - Been Dr. Larry Cheng’s assistant during summer school*- Supervisor: Dr. Roohollah Bagherzadeh (Amirkabir University of Technology, Iran)*
- **Member of Amirkabir Astronomy Club** April 2023 - Present
Tasks:
 - Design and implementation of astronomical events

Honors

- **Win 1st place price of IEEE Open Data Hackathon Competition** November 2022

LANGUAGE PROFICIENCY

- English (Fluent)
- Persian (Native)
- Kurdish (Native)