Parsa Mohammadi | Curriculum Vitae

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| (+98) 9182265891 | <https://parsam.eu.pythonanywhere.com> | | | gmail-logo-png-white-1ParsaMohammadi@aut.ac.ir |
| [GitHub](https://github.com/PARSA-MHMDI) | | [Linkedin - Free social media iconsLinkedIn](http://www.linkedin.com/in/parsa-mohammadi-0b079620a) | [ResearchGate](https://www.researchgate.net/profile/Parsa-Mohammadi-2) | |

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| 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

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| RESEARCH INTERESTS |

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| * Computer Vision * Signal Processing | * Deep Learning * Image Processing |

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| 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*](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)*

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| SKILLS |

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| * 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 |

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| CERTIFICATED COURSES |

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| * **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 |

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| VOLUNTEERING EXPERIENCES |

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| * 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 |

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| **Honors** |

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

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| **LANGUAGE PROFICIENCY** |

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| * English (Fluent) * Persian (Native) * Kurdish (Native) |