Parsa Mohammadi | Curriculum Vitae

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GitHub

in LinkedIn

ResearchGate

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

EXPERIENCES

Machine Learning Intern

July 2022- Present

Asr Gooyesh Pardaz · Full-time, Tehran, Iran

- Implemented signal processing models
- Implementation signal processing models on the backend
- Supervisor: Dr. H. Sameti (Sharif University of Technology, Tehran, Iran)

Teaching Assistant

February 2023 – July 2022

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.
- o 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 – July 2022

Iran's National Elites Foundation (INEF), Tehran, Iran

Project: "Data-driven Maintenance of Urban Infrastructure in Smart City"

- o 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:

- o 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. A. 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.
- o Implementation of neural network models to predict eye fixation and advertising effectiveness.
- Supervisor: Dr. M. A. Akhaey (University of Tehran, Tehran, Iran)

SKILLS

Programming Skills

Python

TensorFlow

NumPy

Pandas

OpenCV

Matplotlib

Sklearn

Django

PyQt

Threading

Async IO

C/C++ HTML/CSS JavaScript Matlab

Electrical Libraries

Simulink

VHDL

IP Core

Verilog

Machine Learning Skills

Classic algorithms

Regression

Classification

Decision tree

SVM

Clustering

PCA

Image processing

CNN

Transfer Learning

Object Detection

U-Net

Style Transfer

Siamese Network

Signal processing

RNN

LSTM

Others

Linux Git

Docker ISE Design Suite

Vivado Design Suite

Proteus 8

Google Colab

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:

- o 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)