

POUYA ZAHEDI

Machine Learning Engineer | Data Scientist

PERSONAL DATA

PLACE & BIRTH: Iran, Tehran | 1993
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PERSONAL DESCRIPTION

Junior data scientist with 1 year experience in developing software and M.L based models from predict and model real world data from develop model to product level. Seeking to increase model efficiency for nonlinear electronic components in ECAD Lab, detect errors due to implementation of sensors and predict MCI parking capacity per hour in Paya Telecommunication Industry.

WORK EXPERIENCE

Data science intern

APR 2022 | *Data science intern*
MAR 2022 | *Loop academy, Tehran*

Predict house price in Germany based on [Apartment rental offers in Germany](#). Preprocessing data such as handle **outlier** data, deal with **missing** values, feature engineering such as **PCA** and keep data as much as possible (try to do not delete data as much as possible). Model cleaned data with **linear regression** and **CNNs**.

Python developer|Data scientist

MAR 2022 | *Python developer, Data scientist*
SEP 2021 | *Paya telecommunication industry, Tehran*

- Iraq Gas line monitoring: Implement real time monitoring system for multiple gas pipes in Iraq which developed in **python** through SNMP protocol.
- Smart Parking System: Implementation plate recognition at [MCI Company](#) using Neural Networks.
- Smart Parking System: Implementation parking occupation forecasting at [MCI Company](#) using Recurrent Neural Networks.
- Smart Store monitoring: Monitor Implement error detection for sensors at [Refah chain stores](#) using Machine Learning Algorithms.

kw: **Linux** based embedded device, communicate through **Restful API**, error **detection** using **histogram** and **SVM** method

ML engineer

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| AUG 2021 | <i>M.L engineer</i> |
| JUL 2021 | Freelancer Handle unbalanced dataset and develop KNN based model to detect credit card fraudulent transactions with 98.2% accuracy using sklearn library. |

A.I Research assistant

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| SEP 2021 | Yazd University (ECAD lab) , Yazd |
| NOV 2020 | Macromodeling nonlinear electronic components and digital packages using State-of-Art Neural Networks like GRU and LSTM . |

SKILLS

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| Programming & Software : | Python, R, C++, Matlab, Excel |
| M.L libraries: | Numpy, Pandas, Scikit-learn, Scipy |
| Framework: | PyTorch, Tensorflow, Keras, OpenCV |
| Concepts: | Recommender systems, Image processing, Object detection, Modeling, Prediction, Optimization |
| Neural Network: | RNN, LSTM, GRU, CNN, YOLO, Detectron2 |
| Machine Learning: | SVM, Histogram, KNN, Decision tree, Random forest, Linear and Quadratic classifier and etc. |
| Visualization: | Tensor board, Gerafana, Matplotlib, Plotly |
| Mathematics: | Probability and Statistics, Linear algebra |
| Database/big data: | PGSQL, MongoDB, MySQL, spark |
| CSM tools: | Git, Github, Gitlab |
| CI tools: | Gitlab CI/CD, Github Actions |
| DevOps tools: | Docker, Jenkins |

EDUCATION

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| 2022 | MSc in Digital Electronic Systems , Yazd university. |
| 2019 | Graduated as 1 st rank among 2019 entrance. |
| 2018 | BSc in Electrical Engineeering , Yazd university. |
| 2013 | |