

Pouya Zahedi

Machine learning engineer, Data scientist

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Personal description

Junior data scientist with 1 year experience in data analysis, modeling and software development. Experienced in time series data prediction, fraudulent detection in banking data, recommendation systems and Linux based embedded software development. Former research assistant at Yazd university worked on electronic elements modeling with artificial neural networks.

Work Experience

Data science intern

JUN 2022 | **Loop academy**, Tehran
MAR 2022 | 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

MAR 2022 | **Paya telecommunication industry**, Tehran
SEP 2021 |

- **Gas pipe line monitoring**: Implement real time monitoring system for multiple gas pipes in Iraq which developed with **python** through **SNMP** protocol and use **PGSql**.
- **Smart Parking System**: Implementation parking occupation forecasting at [MCI Company](#) using **GRU** recurrent neural networks by **Tensorflow**.
- **Smart Store monitoring**: develop data collector software for real time monitoring on **Linux** based embedded systems at [refah cahin store](#) environmental sensors. Includes collecting data and transmit to database server through **Restful API**. Develop machine learning based module to check the correctness of sensors by combination of **histogram** and **SVM** method using **sklearn** library.

ML engineer

AUG, 2021 | **Freelancer**
JUL, 2021 | 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

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**. The results will publish in IEEE journals

Skills

Programming & Software :	Python, C++, Matlab, Excel
M.L libraries:	Numpy, Pandas, Scikit-learn, Scipy
Framework:	PyTorch, Tensorflow, Keras
Concepts:	Fraudulent detection , Recommender systems, Behavioral modeling, Time series prediction
Neural Network:	RNN, LSTM, GRU, CNN,
Machine Learning:	SVM, Histogram, KNN, Decision tree, Random forest, Linear and Quadratic classifier and etc.
Visualization:	Tensor board, Gerafana, Matplotlib, Seaborn, Power BI
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

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