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 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

Mar 2022 Sep 2021	**Paya telecommunication industry**, Tehran - **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 envoirnmental 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 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

SEP 2021 NOV 2020	**Yazd University (ECAD lab)**, Yazd 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
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

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