Reza Yazdanfar

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Time Series Analysis	Computer Vision	Natural Language Processing	Content Creation
		(NLP)	

Education:

B.Sc. in Petroleum Engineering Shiraz University, Shiraz, Iran

September 2017- 2021

Experiences:

Head - Scientific Association of Petroleum Engineers Shiraz UniversitySeptember 2020-2021Member - Iran Renewable Energy Association (IRREA)September 2020-2021Communication Coordinate - World Petroleum Council Young ProfessionalsNovember 2020-2021Junior Machine Learning Engineer - Peykare Sazeh Kohan CompanyMarch 2019 - August 2020

Machine Learning Engineer - NOVUM-engineering GmbH

August 2022– Present

2020

Professional Projects:

variate with over 10 years data" Supervisor: Dr M. Escrochi EOR/IOR Research Institute Assistant Professor of Petroleum Engineering-Shiraz University Proposed common DL models: AR, MA, AR(I)MA, AR-LSTM, SAR(I)MA "Predicting the Hydrate Free Zone of Reservoir Fluid by the use of Machine Learning"	2021
Supervisor: Professor B. Tohidi Professor of Petroleum Engineering-Herriot Watt University Proposed common ML models: ANN, XGBoost, Random Forest, Decision Tree.	2021
Predicting the Fluid Property of CO2-mixture Transportation in Carbon Capture and Storage (CCS) Supervisor: Prof M. Riazi Professor of Petroleum Engineering-Shiraz University Proposed common ML models: XGBoost, Random Forest, Decision Tree.	2021
Modelling of Lithium Ion Battery by using Radiation X-Ray Tomography (SRXTM) of Porous, Transition Metal Oxide Based Lithium Ion Battery Electrodes	2021
Visualizing Geoscience data such as well log data, etc.	2021

Publications:

Forecasting and Optimizing the Performance of Polymer Electrolyte Membrane (PEM) Fuel Cell by Advanced Deep Learning Algorithms

To be submitted

Supervisor: Dr M. Pazhoohesh Senior Lecturer-De MontFort University

Proposed advanced DL models: Long-Short-Term-Memory (LSTM), Gated Recurrent Unit (GRU), Trans-

formerEncoder (Self-Attention based)

Technical Skills:

Programming Languages

• Python • MATLAB

Deep Learning libraries

• TensorFlow • PyTorch

Petroleum/Chemical Engineering

• PIPESIM

• Aspen HYSIS

• HydraFLASH

• Keras

Statistical Computing Software

• IBM SPSS Statistics

MATLAB

Deep Learning Algorithms

• Self-Attention • RNN(LSTM, GRU)

- AR-LSTM
- Transfomers
- CNN
- Informers

Volunteering Experiences:

Organizing Courses (Pipesime (2021), StimCADE (2021), Python in Data Science (2019), Aspen HYSIS (2020), etc.)

Organizing Scientific Webinars in the field of Energy and Environment Industry (Climate change: Challenges, Opportunities and Solutions (2021), Introduction to Material Science in Petroleum Engineering(2021), Women's Challenges in the Oil Industry (2021), Low salinity water flooding

Languages:

Persian (Native)

English (Proficient)