AliReza Shooshtari

ABOUT ME

Date of Birth: May 16th, 1996
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RESEARCH INTERESTS

- Deep learning in different biomedical engineering applications
- Deep learning in different biomedical engineering applications
- Medical image processing
- Smart grids

EDUCATION

2019 - 2022

University of Tehran, Iran
MSc., Power Systems

GPA: 17.48 (out of 20)
Thesis: Power Transformer Health Index Modeling Based on Intelligent Methods.
Thesis description: The thesis presents an artificial neural network approach for determining the health index of transformers in a cost-effective manner. The proposed method achieves an accuracy rate of approximately 98% by identifying and removing redundant features while predicting costly cases.

2014 - 2019

Bu-Ali Sina University, Iran
BSc., Electrical engineer

GPA: 17.16 (out of 20)
Thesis: Optimizing Microgrids for Cost Reduction: An Investigation of Production Costs.
Thesis description: This thesis explores optimization methods for microgrids, considering both production costs and maximum utilization.

PUBLICATIONS

- Investigation on applications of unsupervised learning methods in clustering the test results of transformers
  In simulation stage

TEACHING EXPERIENCES

September 2020 - December 2020	• Power Systems Dynamics 1, University of Tehran, Teaching Assistant
September 2020 - December 2020	• Analysis of Power Systems Transients, University of Tehran, Teaching Assistant
September 2017 - December 2017	• Electrical Machines, Bu-Ali Sina University, Teaching Assistant
September 2017 - December 2017	• Industrial Electronics, Bu-Ali Sina University, Teaching Assistant
February 2018 - May 2018	• Fundemtals of Electrical Engineering, Bu-Ali Sina University, Teaching Assistant
September 2018 - November 2018	• Python, Bu-Ali Sina University, Workshop

SKILLS

Technical:
- **Deep Learning** (supervised Learning, Timeseries Prediction Image Classification, Signal Denoising, Image Denoising, Image Segmentation, Face Detection)
- **Machine Learning (**Supervised Learning, Unsupervised Learning, Timeseries Prediction**)**
- **Django Developer (**eCommerce Web Developement, RESTful API, Algorithm, Database Programming **)**
- **Business intelligence (**Data Analyzing, Build Visual Reports **)**

Tools:
- Python (TensorFlow, Scikit-Learn, NumPy, Pandas, OpenCV, Django)
- MATLAB (Simulink, Programming)
- Microsoft Power BI
- MySQL
- Microsoft Office (Word, PowerPoint, and Excel)

SOFT SKILLS:
- Teamwork
- Creative & Design Thinking
- Responsibility
- Flexibility

LANGUAGE SKILLS

- Persian: Native
- English: Fluent (IELTS will be taken)

ONLINE COURSES & CERTIFICATIONS

- **DeepLearning.AI TensorFlow Developer (Coursera):**
  - Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
  - Convolutional Neural Networks in TensorFlow
  - Natural Language Processing in TensorFlow
  - Sequences, Time Series and Prediction
- **Deep Learning Specialization (Coursera):**
  - Neural Network and Deep Learning
  - Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
- **Python for Everybody (Coursera)**
  - Programming with Everybody (Getting Started with Python)
- **Machine Learning A to Z (UDEMY)**
- **Kaggle**
  - Python
  - Pandas
  - Intro to Machine Learning
  - Intermediate Machine Learning
  - Feature Engineering
- **CS50's Introduction to Computer Science (Harvard University)**
- **Codewithmosh.com**
  - Complete Python Mastery
  - Complete SQL mastery
  - The Ultimate Git Course
  - The Ultimate Django Series

EXPERIENCES

June 2022 - January 2023
Full-time

INSOOO.ir, Iran: Iranian product search engine that has been in operation since 1997. This platform boasts an extensive database of over 163,452 products.
Backend Developer (Django)

- Utilizing sales and inventory data for future planning Through effective database management(MySQL, Power BI)
- Python was used to construct a web product monitoring crawler

June 2017 - September 2017

Vian Steel Complex (VISCO), Iran: VISCO is Iran's second largest privately owned steel-maker
Electrical Engineering Internship

- Assist in designing and implementing industrial automation systems using Siemens PLCs and devices
- Conduct research on new technologies related to industrial automation
- Prepare technical reports and documentation related to projects

HONORS & AWARDS

2019
- Ranked within top 0.1% among more than 40,000 participations in Iranian university entrance exam for Master's degree (Rank 35)

2014
- Ranked within top 1% among more than 222,000 participations in Iranian university entrance exam for Bachelor's degree (Rank 1525)

- Received national graduate and undergraduate full scholarship

EXTRACURRICULAR ACTIVITIES and Hobbies

2018-2019
- Member of the board of directors of "Baran Mehrabani" charity

2017-2018
- Supervisor of the education committee at "Baran Mehrabani" charity

2017-2018
- Teaching math and Rubik's cube in low-income areas as a member of the education committee of "Baran Mehrabani" charity

Hobbies

- Studying philosophy, astronomy, and physics   • Movie   • Soccer

REFERENCES

Dr. Amir Abbas Shayegani Akmal
Assistant Professor
School of Electrical and Computer Engineering
University of Tehran, Iran
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