Farimasadat Miri

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As a PhD data science researcher with 6 years of experience, my entire profession to date has been driven by my passion to deliver the most effective solutions for solving complex real-world problems. The influence of neural networks on people's daily lives in various fields such as vehicular ad hoc networks, cloud computing, fog computing, and IoT made me passionate to become an expert data scientist in time series, and graph convolutional networks.

Education

Ph.D. Computer Science, (4.0 GPA)   Oshawa, Canada | 2019 - Present
Ontario Tech University

MS of Information Communication Technology, (4.0 GPA)   Tehran, Iran
Iran university of science and technology

BS of Information Technology, (3.33 GPA)   Tehran, Iran
Iran university of science and technology

Experience

Research Assistant in IoT lab - Ontario Tech University   Oshawa, Canada | 2019 - Present
- Data mining of different traffic and accident datasets to extract meaningful patterns from raw data.
- Proposing a novel model to predict traffic flow after unpredictable events such as accidents achieving over 30% improvement compared to recent models.
- Researching to propose a new approach to allocate physical storage and computational resources in ad hoc networks through exploiting fog and cloud computing.
- Proposing a system to leverage reliable cars as head clusters to act as fog servers along the road in emergency situations.

Teaching Assistant - Ontario Tech University   Oshawa, Canada | 2019 - Present
- Teaching courses in Data structures and algorithms, Computer architecture, and Computer Security for classes containing 150 undergrad students in computer science.
- Responsible for lab sessions to help students understand theoretical topics in a practical way..

IT Manager - Fanavaran Sanat Hooshmand   Tehran, Iran | 2016 - 2018
- Utilizing data analysis expertise in order to find potential customers for the company.
- Using predictive machine learning models to cluster customers and recommend most cost-effective solutions to increase the company profit.

Skills and Knowledge
- 3+ years of experience with Python and C++ programming languages.
- 1+ experience of AWS Public Cloud based Solutions.
- Experience with data science packages: Scikit-Learn, Pandas, Numpy, Scipy.
- Proficiency skills in data processing and manipulation
- Experience with visualisation with Matplotlib, Seaborn, and Plotly.
- Developing deep learning models using Keras.
- Experience with time series models such as Arima, GRU, LSTM, Attention.
- Knowledge in graph neural networks such as GCN, GraphSage.
- Knowledge in object detection using Mask R-CNN.
- Knowledge of relational databases (SQL).

Interests and hobbies: Reading AI books, Video games, Animation, Gymnastic.