

MOZHGAN SALIMIPARSA

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Summary

Ph.D. in Artificial Intelligence with a strong foundation in **machine learning** algorithms and **deep neural networks**. Proficient in Python, TensorFlow, and PyTorch. Experienced in **Explainable AI (XAI)** techniques and adept at **data visualization**, applying my academic knowledge to real-world challenges.

Education

University of Western Ontario

Sep. 2018 – Sep. 2023

Ph.D. Candidate in Computer Science

London, CA

- **Thesis:** Design and Development of an Explainable AI System for Healthcare Using Visual Analytics
- **Teaching Assistant:** Artificial Intelligence, Data Analysis, Algorithms, Information Systems, Multimedia

McMaster University

Apr. 2016 – Sep. 2017

Visiting Researcher

Hamilton, CA

- **Research:** Developed signal processing techniques for phonocardiograph data, including simulation and anomaly detection

Work Experience

Data Scientist *Nomad, London, Canada*

Nov. 2022 - Present

- Modeled and analyzed **eye-tracking data** to uncover insights into the correlation between eye movements and neurodevelopmental disorders.
- Collaborated with a multidisciplinary team of developers, neuroscientists, and researchers to design and implement eye-tracking-based interventions.
- Utilized Unity and C# programming to create 3D games and applications for analyzing eye-tracking data.
- Utilized version control and facilitated code collaboration using Plastic SCM for virtual reality projects.

Machine Learning Engineer *Spassmed Inc., Toronto, Canada*

Jan. 2023 - Jul. 2023

- Led a team of 5 data scientists and engineers in deploying Casual Inference models for **Vector Institue**
- Mentored junior team members and facilitated knowledge-sharing sessions on explainable AI.
- Authored a paper explaining the machine learning model employed by the team for predictive modeling in sepsis detection.

Research Assistant *Western University, London, Canada*

Sep. 2018 - Sep. 2023

- Designed and deployed a visual analytics tool to assess bias within a clinical decision support system.
- Directed the development and implementation of a triaging system for ICU admission utilizing **explainable AI** techniques, including Shapley values and counterfactual explanations.
- Devised an interactive system to analyze Twitter users' behavior and relationships using NLP.

Skills

Programming Languages: Python, C/C++, R, Matlab, PHP, SQL

Web Development: PHP, JavaScript, D3, HTML/CSS

Technology: Git, AWS, GCP, Docker, Unity, Hadoop, MongoDB

Technical Expertise: Machine Learning, Deep Learning, Statistical Analysis, NLP, Databases

Projects

Question Answering System | *Pytorch, Spacy, Pickle*

2019

Designed an NLP preprocessing pipeline for QA based on factoid question-answering approach.

Face Aging Using Generative Adversarial Networks | *GANs, TensorFlow, Numpy*

2018

Trained with four GPUs on a single node.