Parsa Alamzadeh

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⚙ Skills

Languages Python, C, JavaScript, Matlab, SQL/NoSQL
Frameworks and Libraries PyTorch, Node.js, ReactJS, PySpark, Numpy, Pandas, Scikit-Learn

◔ Experiences

Latence Technologies
ML Engineer Intern

Sept. 2021 – Present
Vancouver, Canada

> Developing a real-time unsupervised anomaly detection model capable of detecting anomalies within 5ms
> Working with Ericsson on a model to predict network degradation of a 5G antenna

Realtor.com
Data Science Intern

May 2021 – Present
Vancouver, Canada

> Leading the next generation of image classification model for Realtor.com
> Developing a tool for generating 100 realistic training images per minute for image segmentation task
> Creating an internal tool for validating and labeling annotations for image based datasets

IxLab
Research Assistant

May 2020 – Sept. 2021
SFU Burnaby

> Was the core-developer for a personalizable AR/VR tutorial website using Django
> Developed and maintained a Google Sheets task-oriented chatbot for ChatrEx
> Incorporated Python's Flask for back-end, RASA for NLU and ReactJS for the front-end

Ester Lab
Research Assistant

Jan. 2021 – May 2021
SFU Burnaby

> Created a network to predict label-invariant noise for tabular genetic data
> Mainstreamed a semi-supervised model to exploit the existing unlabeled datasets for training
> Did data-cleaning and preparation for over 3,000 datapoints for model development

OpenMined – PySyft
Open-Source Contributor

Feb. 2018 – Jan. 2019

> Created a base class for Fixed-Precision Tensor for integer only computations
> Performed QA and managed over 50 unit tests to assure reliability of the framework
> Laid the groundwork for Semi-Homomorphic operations for Paillier ciphertexts

🗐 Publications

Velodrome: Out-of-Distribution Generalization from Labeled and Unlabeled Gene Expression Data for Drug Response Prediction – ⬀

> Sharifi-Noghabi, H., Alamzadeh, P., Zolotareva, O.I., Collins, C.C., & Ester, M. *Nature Machine Intelligence Journal 2021.*

ChatrEx: Designing explainable chatbot interfaces for enhancing usefulness, transparency and trust – ⬀

> Khurana, A., Alamzadeh, P., & Chilana P. *Proceedings of the IEEE VL/HCC 2021.*

🎓 Educations

Simon Fraser University
CS Dual Degree Program, B.Sc.

2016 - Present
Burnaby, BC

Zhejiang University
CS Dual Degree Program, B.Eng.

2016 - Present
Hangzhou, China