Zhaowei Zhang

Associate Data Scientist

Driven and enthusiastic data scientist with experience in all aspects of data science including problem formulation, in-depth analysis, data processing, machine learning, communication and presentation.

Education

2019-09 - 2022-02

Master of Engineering: Electrical Engineering

McGill University - Montreal, Canada

- **GPA**: 3.8/4.0
- **Relevant Coursework**: Statistical Computer Vision, Applied Machine Learning, Generalized Linear Models.

2012-09 - 2016-12

Bachelor of Engineering: Electrical Engineering

McGill University - Montreal, Canada

Projects

Collaborative Filtering Recommender System (Master Major Project)

- Developed a framework for efficient comparison between different side information-enhanced recommender systems .
- Designed a mutual information-based view alignment strategy for multi-view recommendation machines.
- Implemented the proposed algorithm in PyTorch and performed parameter tuning using Ray Tune.
- Achieved state-of-the-art accuracy on Amazon review dataset and improved system convergence speed by 50%.

Credit Card Fraud Detection

- Conducted comprehensive data exploration using Python.

Contact

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Skills

Python
Excellent

SQL
Very Good

R
Average

Machine learning
Very Good

Recommender system
Excellent

Statistical analysis
Very Good

Data Mining
Very Good

Tableau
Average

- Applied NearMiss algorithm to handle detected anomaly in data.
- Compared and analyzed performance of different models including logistic regression, decision tree, random forest, SVM and KNN.

Team Performance Dashboard

- Created a clear outline to gather business requirements.
- Defined measurement strategies and built a scalable and insightful dashboard in Tableau to quantify the performance of a business team and enable reliable self-service analytics.

Certificates

- SQL for Data Science (Coursera, 2022)
- Associate AWS Solutions Architect (Amazon Web Services, 2017)

Work History

2018-04 - 2019-06

Quality Assurance Engineer

Freshworks Studio Inc, Victoria, BC

- Designed and ran tests for over 5 projects and achieved 100% satisfaction in customer feedback.
- Automated regression tests using Geb and Groovy; accelerated average testing turnaround time by 50%.

2017-01 - 2017-12

Quality Assurance Engineer

Bell Canada, Saint John, NB

- Located and reported defects with 100% on-time record for over 3 major releases of Bell TV content management system.
- Collaborated with different stakeholders to assess program capabilities, features and testing demands.