

Objective

Motivated and detail-oriented Master of Computer Science student with expertise in Python, data analysis, and machine learning, seeking to apply my strong technical skills to the Reporting & Analytics Co-op and Global Talent Technology Co-op roles at Teck Ltd. Eager to contribute to data-driven solutions, operational excellence, and talent technology by leveraging my experience in data modeling, automation, and application support.

Highlights

- Results-driven and detail-oriented Computer Science Engineer.
- Strong proficiency in Python, C#, SQL and NoSQL databases and Microsoft Office.
- Proficient in Python, including Pandas, PySpark, Scipy, and scikit-learn.
- Solid understanding of machine learning algorithms: supervised (regression, classification) and unsupervised (clustering, anomaly detection, recommendation systems).
- Strong background in data analysis, machine learning concepts, algorithms, and frameworks.
- Strong knowledge of data preprocessing, feature engineering, dimensionality reduction, and model evaluation.
- Skilled in model evaluation such as cross-validation, hyperparameter tuning, and model metrics.
- Expertise in statistical analysis, quantitative analytics, forecasting/predictive analytics.
- Skilled in data visualization using libraries like Matplotlib, Seaborn, Plotly, Tableau, and Power BI.
- Robust analytical thinking, outstanding problem-solving abilities.

Education

Master of Computer Science University of Victoria, Canada, Victoria	2023-2024 GPA: A +
Bachelor of Software Engineer Shariaty University, Iran, Tehran	GPA: 3.74/4

Certifications & Awards

Graduate Research Funding Award , University of Victoria	2024
Top Academic Performance Award , University of Victoria	2024
Top Academic Performance Award , University of Victoria	2023
Entrance Fully Fellowship , University of Victoria	2023-2024
Entrance Fully Funded , Shariaty University	2012

LinkedIn Skill Assessment badges: Machine Learning, Power BI, C#, Microsoft Word and Excel, MySQL

Project Experience

Analyzed biases in Russian troll tweets

Technology Stack: Cypher, Neo4j, Python

- Analyzed biases in Russian troll tweets from the 2016 US election using machine learning techniques.
- Collaborated within a team to efficiently categorize biases, demonstrating strong teamwork.
- Applied vector embeddings and spectral clustering to unveil political and gender biases.
- Employed time management skills to meet project deadlines within a constrained timeframe.
- Proficiency in data analysis and interpretation to extract meaningful insights.

Privacy in public transit data

Technology Stack: Python

- Implemented several differentially private algorithms (geo-indistinguishability, temporal correlation, noisy wavelets) to anonymize simulated public transit smart card data.
- Evaluated algorithms based on privacy guarantees and utility metrics to analyze biases and inform future privacy-preserving applications.
- Proposed a privacy-enhancing algorithm for a real-time transit tracking mobile app.
- Excellent problem-solving and analytical capabilities and teamwork abilities.

Patient Data Analysis

Technology Stack: Python, MySQL

- Applied advanced imputation techniques to handle missing patient data.
- Utilized statistical methods and linear regression for accurate estimation.
- Demonstrated proficiency in data wrangling and machine learning analysis.

MovieLens Data Analysis

Technology Stack: Python, Jupyter Notebook

- Analyzed MovieLens dataset for extensive data analysis.
- Explored movie genres, ratings, and user engagement patterns to uncover insights.
- Cleaned and preprocessed data to ensure reliability.
- Developed a personalized movie recommendation system based on user-generated tags, showcasing machine learning skills.
- Conducted statistical analysis to identify significant trends in movie preferences.
- Strong time management and teamwork skills demonstrated.

Diabetes prediction

Technology Stack: Python, Jupyter Notebook

- Developed and evaluated various diabetes prediction models.
- Explored data balancing techniques to improve model accuracy.
- Analyzed evaluation metrics to assess model performance.
- Identified superior models for diabetes prediction through comprehensive analysis.

Work Experience

Mentor and Business Plan writer (Part time)

Aug 2023 - April 2024

Vertumind Co, Canada

- Checking and analyzing Business Plans and Pitch decks
- Crafting detailed and compelling business plans to support client applications.
- Conducting thorough research and analysis to enhance application success rates.
- Demonstrated effective time management and organizational skills in meeting tight deadlines.

Software Developer

ASM, Iran

2019 - 2022

- Developed and implemented vehicle tracking solutions using various AVL devices.
- Processed and translated device data for real-time mapping and historical tracking.
- Enabled remote listening and recording via GSM modem with auto-answer functionality.
- Utilized .NET (WinForms, Socket Programming), UDP Socket Programming and OOP.
- Configured AVL devices and managed serial port communication.
- Contributed to the integration of spatial data into GIS systems, improving data visualization and analysis capabilities.

Activities & Interests

Basketball, Fishing, Camping, Web Browsing, Photography, Podcasts