

# CYNTHIA FONDERSON

## Data Analyst | Data Scientist | Business Analyst

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### SKILLS

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#### Domain Knowledge

6+ years – Data Science & Analytics, Data Cleaning, Data Integration, Data Wrangling, Statistics  
5+ years – Feature Engineering, Machine Learning, Predictive Analytics, Version Control  
3+ years – Scrum Methodologies, Agile, Jira, Confluence,  
1+ years – Business Intelligence, Deep Learning, and Cloud Computing, NLP, Recommender Systems

#### Data Science and ML

5+ years – Microsoft Suite (Excel, SharePoint), Google Suite (Sheets, Docs), Pandas, Numpy, Matplotlib, Scikit-Learn, Seaborn, Plotly, Tableau  
3+ years – BeautifulSoup, Requests, TensorFlow, Keras, PyTorch, Power BI, DAX

#### Programming and Cloud and DevOps

5+ years – Linux, Python, JupyterLab, Jupyter Notebooks, CLI, Git/GitHub, VS Code  
3+ years – R, SQL, MySQL, Microsoft SQL Server, Streamlit  
1+ years – Docker, Apache Spark/PySpark, Airflow, Databricks, AWS, Azure, GCP

### EDUCATION

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#### University of Calgary

Calgary, AB

Master of Data Science and Analytics (GPA: 4.0)

Expected 2025

- Relevant Coursework: Working Data & Visualization, Statistical Data Analysis, Statistical Modelling with Data, Working with Data at Scale, Actionable Visualizations & Analytics, Statistical & Machine Learning Methods in Data Science, Developing Big Data Applications

#### University of Lethbridge

Master of Science in Computational Chemistry (With Distinction)

Dec 2022

Bachelor of Science in Biochemistry (With Honors)

Aug 2019

### WORK EXPERIENCE

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#### Teck Resources Limited

Calgary, AB

Business Intelligence Analyst

Sep 2023 – Present

Building interactive data tools to optimize business operations with mining maintenance units and providing client support for data products and requests

- Assisting in developing and tracking KPIs, aggregating data to model maintenance operations at various mining locations, communicate reports, insights and recommendations to diverse stakeholders
- Analyzing team skill sets and availability hours and creating dashboard tool to optimize team efficiency by 15%, saving 100 hours of manpower
- Processing historical maintenance data and building an anomaly detection model to identify maintenance issues over time using Python (model performance > 75%, model error < 10%)

#### Cybera

Calgary, AB

Data Scientist (Intern)

May 2023 – Aug 2023

Designed, built and deployed (AWS) a predictive regression model that quantifies the efficacy of client's curriculum on brain development in children

- Processed and cleaned historical client data (15 GB), implemented, and evaluated multiple regression models using Python (scikit-learn, xgboost) to predict the effect of certain curricula on brain function over time.
- Worked collaboratively to build a FAST API with multiple (3) endpoints to ingest and clean novel data and predict future brain scores using ML algorithm. Visualized predictions in streamlit via an interactive end-user dashboard and deployed models on AWS
- Maintained technical documents using Rapid Access Cloud Storage, Git/GitHub, and versioned data using custom built data pipeline that reduced data processing time by 65%
- Leveraged time-management skills, JIRA and other Scrum tools to manage project expectations and reported findings to client company bi-weekly during demo meetings

## Correlation One

Data Science Fellow

Remote

Oct 2022 – Feb 2023

*Mined, ingested and analyzed data from the CDC and U.S. Census to determine the effects socio-economic factors have on racial disparities in maternal mortality and deployed results on GitHub and Tableau*

- Built automated data and ETL pipelines to mine, ingest and model data from the CDC and U.S. Census platforms using APIs, increasing team efficiency by 30%
- Maintained technical documents and team results using Google Suite and GitHub, and deployed a data analytics dashboard on Tableau, visualizing results accessible to both technical and non-technical audiences
- Demonstrated strong creativity, storytelling and communication skills by sharing project results to a diverse audience (250+; non-technical and technical)
- Leveraged agile tools, time-management and adaptability skills to create a detailed project plan, assign project deliverables, and evaluate team progress, ensuring timely project completion

## University of Lethbridge

Research Data Analyst

Lethbridge, AB

Jun 2017 – Dec 2022

*Applied machine learning algorithms (regression, clustering) to study the relationships between several diseases including cancer. Results were used as starting points for industry projects and are currently being published*

- Leveraged analytical thinking and statistical data analysis to build and develop clustering and classification models to identify pertinent structural changes upon genetic damage achieving reproducible accuracies > 80%
- Collected, processed, and analyzed production data (structured and unstructured data) to train and validate machine learning and AI algorithms, resulting in 15% improvement in algorithm accuracy
- Collaborated with cross-functional teams to design and improve machine learning data pipelines, reducing data processing time by 20%
- Demonstrated excellent communication skills through written reports (1–2 pages), publications, creative posters, and live presentations at national, and international conferences (50 – 250+ people)

## PERSONAL PROJECTS

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### Data analytics for business management

SQL, Looker Studio, GCP, Business Analysis

- Designed and implemented a data integration solution to consolidate disparate data sources from a client restaurant
- Utilized SQL to extract, transform, and load data into a centralized database
- Developed data visualization dashboards using Looker Studio to monitor performance and manage the business' orders, stock, and staff
- Conducted performance testing and optimization to enhance data processing efficiency

### Business analytics for BikeX

SQL, Excel, Tableau, Business Analysis

- Extracted data from BikeX's internal database using a custom SQL query
- Ingested and cleaned the data in Microsoft Excel and conducted exploratory data analysis to visualize trends and relevant information
- Imported data into Tableau and built an interactive dashboard, reviewing the company's performance over a 3-year period. Gained business insights and KPIs included the sales activity, revenue per region, and the top salespeople

### Risk prediction in financial services

Python, Scikit-learn, Predictive Modelling

- Analyzed and visualized data from a financial organization to identify trends and patterns
- Evaluated and compared the performance of 5 machine learning classification models in identifying at-risk client accounts
- Documented and communicated findings using Jupyter and GitHub

## FELLOWSHIPS, LICENSES & CERTIFICATIONS

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Data Science for All Fellowship 02/2023

NPower Canada – Data Analyst Fellowship 12/2022

IBM Professional Data Analyst Certification 11/2022

Microsoft Azure Fundamentals 11/2022

Microsoft Azure AI Fundamentals 11/2022