

Ruhi Mahendra

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PROFESSIONAL EXPERIENCE

Data Analyst

Taking Root

Vancouver, Canada

May 2021- July 2022

- Built an automated reporting and verification infrastructure through Cron jobs using Python and SQL to process tree sampling data provided by clients to improve data quality and saving program managers 5 hours a week through report automation
- Provided optimal sampling solutions to clients to increase carbon removal precision estimates by 30%
- Prepared an easy-to-use interactive R Shiny dashboard with key insights for program managers to visualize and understand client data trends

Research Assistant

University of Waterloo

Waterloo, Canada

April 2021 – February 2022

- Worked under the supervision of Dr. Kalyaanamoorthy contributing to the development of a Machine Learning model for repurposing therapeutics to target viral diseases
- Developed Bash and Python scripts to increase virtual screening efficiency by 100-fold to collect ligand-protein complex data for use in the classification model
- Conducted an analysis for an external research project which lead to a published scientific paper identifying gene expression trends based on their functions within biological samples using R

Biodiversity Data Scientist

Agriculture and Agri-Food Canada

Ottawa, Canada

May 2020 – August 2020

- Developed R scripts to perform text mining to reduce redundancy between databases containing data on the flora of North America resulting in one robust relational database
- Designed and implemented interactive R shiny dashboards used by higher management to visualize data trends on the flora of North America

Scientific Data Analyst

Environment and Climate Change Canada

Toronto, Canada

January 2020 – April 2020

- Wrote Shell and Python scripts to process large satellite-derived remote sensing datasets and utilize numerical models to predict global albedo shifts impacted through climate change
- Created visually appealing geographical maps using Python's Matplotlib and satellite data to explain the variability in landcover due to the rise in atmospheric temperatures

EDUCATION

McGill University, Desautels Faculty of Management

Master of Management in Analytics

Montreal, Canada

July 2022 – May 2023

University of Waterloo

Bachelor of Science (Co-op), Specialization in Bioinformatics

Waterloo, Canada

September 2016 – April 2021

DATA ENGINEERING PROJECTS

Academic Analytics Consulting Project with Quebec Health

- Designed an ELT pipeline using Azure and Databricks to process semi-structured data from 7+ data sources to be used for a predictive employee churn model implemented on the Quebec Health system

Academic Analytics Consulting Project with BDC

- Automated the extraction and transformation of data from Azure DevOps Kanban Boards using Microsoft PowerShell and Python in order to develop productivity insights from Kanban board tickets

Strava Data Pipeline

- Developed a job orchestration pipeline using Apache Airflow to extract activities from the Strava API, transform the data and load the data on an SQLite Database

Football Player Valuation Model Deployment

- Deployed the football player valuation prediction model on Heroku with Docker through the creation of a Python Flask App
- Implemented a CI/CD pipeline using GitHub Actions to monitor changes within the main branch of the repository to update the model on Heroku

TECHNICAL SKILLS

- **Tools & Software:** SQL, NoSQL, Neo4j, Python, R, Power BI, Bash, Git, Azure, Command Line, Docker, Airflow, Databricks
- **Skills:** Data Visualization, Data Wrangling, Data Structures and Algorithms, Web Scraping, Object-Oriented programming, ETL, ELT, Machine Learning, Data Science, Data Modelling, Data Analytics, Statistics, Data Warehousing, Data extraction with APIs, CI/CD Pipeline