

Relevant Skills

Technical Skills

- Programming** - Python, Julia, R, SQL, BigQuery, (embedded) C, Matlab & Simulink, Bash
Libraries - Pandas, Numpy, Plotly, Scikit-Learn, XGBoost, Keras, PyTorch, Flux.jl, JuMP.jl, DifferentialEquations.jl, Pillow, OpenCV, SQLAlchemy
Cloud Tools - IBM Cognos, GCP, Azure ML Studio, Amazon Web Services, Linux, Git, Docker, DVC
Database - MySQL, SQLite, BigQuery Table
BI Tools - Streamlit, Flask, Excel, Power Bi, Tableau

Soft Skills

- Communication** - demonstrated through the ability to convey complex technical information to non-technical audiences through presentations
Collaboration - working with others and sharing ideas/feedback to produce effective results efficiently while maintaining a positive environment

Work Experience

Machine Learning Developer Associate / AltaML

Calgary, AB | 09/2022 – 12/2022

- Worked with AltaML Business Partner and one of the largest provincial financial institutions in Alberta and **built a tool that discovers missing and scattered geospatial data in their database**. Using this, the AltaML partner can build advice-based early warning systems, better loan-loss prevention tools, discover trends and patterns in client behavior and predict retail client delinquency, etc, **saving upwards of \$100 million dollars or more**.
- Developed an automated and self-maintained ETL pipeline using **GCP** and **Bigquery** to sequentially find missing geospatial data in the database, by **NLP classifiers** and **fuzzy matching** addresses from **Google Places API**, which maximizes the client-transaction coverage of found locations.
- Engaged in **professional weekly updates with the client**, implemented feature requests, and acted as **a source of technical data science knowledge**.
- Created **in-depth documentation** and **code packaging** to ensure that the created pipeline can be understood, adjusted, and replicated efficiently.

Projects

Illegal Wildlife Trade Reduction / AltaML Hackathon (1st place) [link]

Calgary, AB | 17/10/2022 – 18/10/2022

- Built animal and human detection tool, in drone images, and deployed it via azure machine learning studio to help minimize illegal wildlife poaching, saving up to \$25 million in tourism alone.

Gesture Designated and Voice controlled Robotic Hand | B. Tech. Mechatronics Final Year Project [link]

Fall 2018

- Successfully built a **Robotic Hand** which can be **self-taught** by any human using **simple hand gestures**, in return we can **operate the taught task via internet** through **Amazon Alexa Voice commands**. The application provides an interface to start and initialize the physical robot controlled by **raspberrypi**
- Designed the core **architecture of the application using python and Amazon Alexa**, as well as performing **gesture recognition & 3D - depth image processing using Xbox 360 Kinect in OpenCV** via deep learning.
- In e-YIC – 2019, this Project was selected in national finals of 13 teams out of 122 teams nationwide.

Education

Data Analytics for Business (Graduate Certificate), St. Clair College

Mississauga, ON, Canada, 2022

B. Tech. in Mechatronics, Ganpat University

Mehsana, GJ, India, 2019

Extracurriculars

Data Science Professional certificate / IBM - Coursera

ENGR2000X / Cornell University - EdX

Personal Projects: Game (Chess, Minesweeper, Gomoku, etc.) AIs, physics, and environmental simulation, making robots & playing with them

Anime & TV series: Binge watched Silicon Valley, Westworld, Kakegurui, Rick & Morty

Music: Cake, Linkin Park, half alive, Barns Courtney, The Snuts