

# Rasadari Ranasinghe

Junior Data Analyst | University of Toronto

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## PROFESSIONAL SUMMARY

Results-driven Data Analyst with a Certificate in Data Analytics from the University of Toronto and a strong background in data visualization, statistical analysis, and problem solving. Skilled in Python, SQL, Tableau, and Excel, with a proven ability to analyze complex datasets and deliver actionable insights. Experienced in developing interactive dashboards, building machine learning models, and streamlining data processes. Passionate about leveraging data driven solutions to optimize business strategies and decision making.

## PROJECTS

### Early Access Video Game Data Analysis – Course Project

- Pulled data from the IGDB API using Python, Pandas, and Jupyter Notebook to analyze early access video game trends in popularity, genres, and release patterns.
- Processed JSON responses into structured DataFrames and created visualizations using Matplotlib to summarize key insights
- Developed data models for game modes, genres, platforms, and regions, highlighting trends through stacked bar graphs, pie charts, and scatter plots
- Presented findings to a class of 30 students, the instructor, and TAs, showcasing insights through interactive visualizations

### Climate Data Analysis and API Development – Course Project

- Pulled historical climate data for Hawaii and conducted in-depth analysis using Python, Pandas, SQLAlchemy, and Matplotlib to identify precipitation and temperature trends
- Explored weather station information to provide deeper insights into climate variations across different locations in Hawaii
- Developed a Flask API with multiple endpoints for real-time data retrieval, integrating SQLite for data storing and access to climate insights
- Designed REST APIs and interactive visualizations to present key findings and trends effectively, ensuring user-friendly access to climate data

### Crime Data Analysis During COVID-19 – Course Project

- Explored crime trends in Toronto during COVID-19 using Pandas, Matplotlib, and Plotly, building interactive visualizations to analyze crime rate changes
- Analyzed the impact of the COVID-19 pandemic on crime patterns, identifying shifts in criminal activity due to factors such as business closures, canceled events, and stay-at-home orders
- Examined trends in crime rates and types before, during, and after the pandemic to understand its effects on the city's safety dynamics.
- Designed REST APIs and interactive dashboards to effectively present key findings and trends

## SKILLS

Python  
SQL  
NoSQL  
Excel  
Pivot Tables

Tableau  
Looker  
Matplotlib  
Plotly

Pandas  
NumPy  
Scikit-Learn  
TensorFlow

GitHub  
Jupyter  
Flask

## AWARDS

University of  
Colombo  
First-Class  
Honors with  
Cumulative  
GPA:  
3.77/4.3

## Crime Data Prediction Using Machine Learning – Course Project

- Analyzed crime data from 2021 to 2024 using the Major Crime Indicators (MCI) dataset in Toronto, retrieved from the ArcGIS REST API
- Processed GeoJSON crime data into DataFrames using pandas, selecting relevant features such as location, occurrence date, premises type, and crime category
- Developed machine learning models, including AdaBoost and Random Forest, to predict future crime incidents based on historical data

## Excel Dashboard for Coffee Sales – Passion Project

- Designed an interactive Excel dashboard using Pivot Tables, Charts, and slicers to analyze coffee sales trends
- Applied advanced Excel functions, including VLOOKUP, INDEX MATCH, and IF, for data analysis and validation
- Incorporated timelines and slicers for dynamic time-based filtering and interactive data segmentation

## WORK EXPERIENCE

### University of Colombo – Teaching Assistant

Aug 2022 – Aug 2023

- Led practical sessions for BSc and MSc students on advanced analytical tools, including ArcGIS, Minitab, and SPSS
- Assisted in curriculum planning, designing lab exercises and assessments aligned with course objectives
- Evaluated student assignments and provided detailed feedback to enhance learning outcomes
- Managed exam invigilation and maintained academic integrity throughout assessments

### People's Bank Colombo – Trainee Banking Assistant

Jan 2017 – Nov 2017

- Processed financial transactions, including deposits, withdrawals, currency exchange, and Western Union payments
- Provided customer support by addressing inquiries and resolving account-related issues
- Collaborated with the banking team to streamline workflows and improve operational efficiency

## EDUCATION

### University of Toronto: Certificate in Data Analytics

Apr 2024 – Oct 2024

- Relevant Coursework: Data Manipulation, Data Analysis, Data Visualization

### University of Colombo: B.Sc. in Environmental Sciences

Jan 2018 – June 2022

- Relevant Coursework: Introduction to Computing, Fundamentals of Programming, Biostatistics, Mathematics, Fundamentals of Software Engineering