

Rasadari Ranasinghe

Data Analyst | University of Toronto

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Professional Summary

Results-driven Data Analyst with expertise in data visualization, statistical analysis, and scientific problem-solving. Certified in Data Analytics from the University of Toronto, skilled in Python, SQL, Tableau, and Excel. Proficient in creating impactful visualizations and analyzing complex datasets to deliver actionable insights. Collaborative team player seeking a junior/entry-level role to drive data-informed decision-making and process optimization.

Education

University of Toronto
Certificate, Data Analytics

Toronto, Canada
April 2024 – October 2024

Relevant Coursework: Data Manipulation, Data Analysis, Data Visualization

University of Colombo

Colombo, Sri Lanka
January 2018 – June 2022

Bachelor of Science, Environmental Sciences

Cumulative GPA: 3.77/4.3 (First Class-Honors)

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

Technical Skills

Programming Languages: Python, SQL, JavaScript, HTML, NoSQL

Data Tools & Libraries: Tableau, Jupyter Notebook, GitHub, Minitab, IBM SPSS, Looker, Excel, Pandas, NumPy, scikit-learn, Plotly, Matplotlib, D3, Flask, Leaflet

Databases: PostgreSQL, SQLite, MongoDB

Big Data & Machine Learning: PySpark, TensorFlow, ArcGIS

Projects

Early Access Video Game Data Analysis

- **Tools:** Python, Pandas, Jupyter Notebook, IGDB API, Matplotlib
- Analyzed early access video games using data from the IGDB API to find trends in popularity, genres, and release patterns.
- Designed and presented visualizations to show the uncovered trends.

Climate Analysis and Flask API

- **Tools:** Python, SQLAlchemy, Pandas, Flask, SQLite
- Performed in-depth analysis of Honolulu's historical climate data to identify precipitation and temperature trends.
- Built a Flask API to facilitate real-time data retrieval, ensuring efficient data management with SQLite.

Ultra Marathon Data Analysis

- **Tools:** Python, SQL, Excel, Looker
- Cleaned and transformed ultra-marathon datasets and created interactive dashboards in Looker, showcasing race performance trends.

Titanic Survival Analysis

- **Tools:** Python, SQLite, Tableau
- Cleaned and processed Titanic passenger data to analyze survival rates
- Built an interactive Tableau dashboard with filters and visualizations, including bar plots, pie charts, and grouped bar plots.

Crime Patterns in Toronto During COVID-19

- **Tools:** JavaScript, Pandas, Matplotlib, Plotly, MongoDB, AWS
- Explored crime trends in Toronto (2014–2022) and built interactive visualizations to analyze crime rate changes.
- Developed an API and integrated AWS Lambda for dynamic data access and streamlined updates.

Crowdfunding Data Transformation Project

- **Tools:** Python, Pandas, PostgreSQL, Excel
- Transformed raw crowdfunding data from CSV files into clean, structured formats.
- Exported data to PostgreSQL for efficient querying and reporting and analyzed success metrics and funding patterns to provide data-driven recommendations.

Crime Data Prediction Project

- **Tools:** Python, scikit-learn, ArcGIS REST API
- Developed AdaBoost and Random Forest models to predict future crime incidents using historical data.
- Improved accuracy with a Voting Regressor combining Random Forest and HistGradientBoostingRegressor and created visualizations of crime patterns.

Weather Prediction Model

- **Tools:** Python, Pandas, Scikit-learn, Matplotlib
- Built a Ridge regression model to predict daily maximum temperatures using weather features and evaluated performance with MSE and R^2 .
- Visualized predictions, residuals, and feature importance to assess accuracy.

Work Experience

Teaching Assistant University of Colombo, Sri Lanka | August 2022 – August 2023

- Led practical sessions for BSc and MSc students on advanced tools like ArcGIS, Minitab, and SPSS, and evaluated assignments.
- Managed exam invigilation, ensuring academic integrity.
- Assisted in curriculum planning by designing lab exercises and assessments aligned with course goals.

Trainee Banking Assistant People's Bank, Sri Lanka | January 2017 – November 2017

- Processed banking transactions, including deposits, withdrawals, currency exchange, and Western Union payments.
- Delivered excellent customer service by addressing inquiries and resolving account issues.
- Collaborated with team members to streamline workflows and improve operational efficiency.