VINUK RANAWEERA

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SUMMARY

Data Analyst skilled in Python, SQL, and data visualization. I turn complex data into clear, actionable insights through predictive models, dashboards, and business-focused analysis. Proven track record of spotting trends and improving decisions in research, finance, and user engagement.

SKILLS

SQL, Spreadsheets (Excel, Google Sheets), Tableau, R (ggplot2, dplyr), Python (pandas, matplotlib), Data Cleaning, Statistical Analysis, Data Visualization, Dashboard Creation, MySQL, BigQuery, Jupyter, RStudio, Microsoft Office Suite (Word, PowerPoint, Teams), Machine Learning, Effective Communication, Critical Thinking, Attention to Detail

EXPERIENCE

Web Developer | Self-Employed   **Jan 2016 - Present**
- Design responsive websites using React.js or WordPress according to clients' needs.
- Built the American Statistical Association NJ Chapter website, http://asanjchapter.org (2016).

Research Intern | BCC Geospatial Center of the CUNY CREST Institute   **Jul 2021 - Aug 2022**
- Preprocessed large-scale geospatial imagery using Google Earth Engine (GEE) APIs.
- Created GeoTIFF files for visualization and vegetation analysis.
- Developed Python & GEE tutorials to help researchers analyze imagery data.

Teacher Assistant (Junior Video Game Design)   **Jan 2017 - Apr 2017**
The Department for Lifelong Learning, Wagner College
- Assisted 25 middle school students in designing 2D video games using Scratch & Unity.

EDUCATION & CERTIFICATIONS

New York University (NYU) Tandon School of Engineering
Master of Science in Computer Engineering   **Expected May 2027**

MIT Professional Education
Applied Data Science Program: Leveraging AI for Effective Decision-Making   **Aug 2024**
- Applied machine learning techniques to optimize product recommendation on e-commerce websites, understand the marketplace, and evaluate customer retention.
- Ranked in the top 5 highest accuracy of the final hackathon challenge for creating a classification model to predict customer satisfaction of train passengers.

Grove School of Engineering, The City College of New York (CUNY)
Bachelor of Science in Computer Science   **Dec 2023**
- *Honors*: Cum Laude, Dean's List
- *Relevant Coursework*: Data Structures, Algorithms, Software Design, Assembly Programming, Discrete Math, Probability Theory, Numerical Analysis in Programming, Modeling Complex Systems, Machine Learning

Coursera
Google Data Analytics Professional Certificate   **Jan 2024**
- Acquired skills in data analysis and visualization using Spreadsheets, SQL, R, and Tableau.

Java Programming: Arrays, Lists, and Structured Data by Duke University Certificate   **Aug 2019**
Java Programming: Solving Problems with Software by Duke University Certificate   **Jul 2019**

PROJECTS

Loan Default Predictions | *Python, Jupyter, Machine Learning* | Link to Project   **Jul 2024 - Aug 2024**
- Built a machine learning model to predict loan default risk with 87% recall, prioritizing low false negatives.
- Optimized model performance for real-world finance through feature engineering and hyperparameter tuning.

Potential Customer Predictions | *Python, Data Cleaning, Critical Thinking* | Link to Project   **Jun 2024 - Jul 2024**
- Cleaned and analyzed lead data to identify key patterns in customer conversion.
- Tested models including Decision Trees and Random Forests to predict which leads were most likely to convert.

Cyclistic Bike Share Case Study | *R, RStudio, Data Visualization* | Link to Project   **Jan 2024 - May 2024**
- Analyzed over 5 million rider activity records to uncover behavior trends and recommend retention strategies, projecting a 10–15% boost in subscriptions.