

VINUK RANAWEERA

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SUMMARY

Data Analyst & Web Developer skilled in Python, JavaScript, SQL, and data visualization. Built predictive models to assess loan default risk, optimized product recommendations for e-commerce platforms, and created interactive, user-friendly web applications. Passionate about transforming data into smart decisions in dynamic, tech-driven environments.

SKILLS

Python, SQL, R, JavaScript, Java, C/C++, HTML/CSS, React.js, Flask, Django, MySQL, BigQuery, MongoDB, Spreadsheets, Cloud Computing (e.g. AWS), Jupyter, RStudio, Tableau, Microsoft Suite, WordPress, Mac OS, Windows, Linux, Git Version Control, Data Visualization, Web Design, Full Stack Development, Problem Solving, Analytical Thinking, Collaboration

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://asanichapter.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

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 predictive model with 87% recall to assess loan default risk, optimizing for minimal false negatives.
- Applied feature engineering & model tuning methods for accurate financial risk assessment.

Cyclistic Bike Share Case Study | *R, RStudio, Data Visualization* | [Link to Project](#) Jan 2024 – Apr 2024

- Analyzed over 5 million records on rider habits to enhance bike-sharing membership strategies, leading to a projected 10-15% increase in user retention and subscription rates.

Pokémon Classification Web App | *React.js, Flask, MongoDB* | [Link to Project](#) Aug 2023 – Present

- Engineered a machine learning model with over 97% accuracy in predicting the type combinations of Pokémon.
- Developed a dynamic web app that gives strategic battle recommendations for user-selected Pokémon teams.