Marc Cheng

Mathematics Specialist | Data Analyst
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SKILLS

Data Science
Python • Pandas • NumPy • R • Jupyter Notebook • SQL • Oracle Database • SSMS • Tableau • Power BI

OOP-related
ADTs • Runtime Analysis • Recursion • Inheritance

Web Development
HTML • CSS • JavaScript

Languages
English • French • Mandarin

Interest & Hobby
Skateboarding • Ukulele • Solving 3x3 Rubik's cubes in one minute

AWARDS

University of Toronto
Dean's List
2022, 2021 | Toronto, ON

Défi OSEntreprendre
Quebec Entrepreneurship Challenge
2017 | Montreal, QC

L'Université Laval
Concours Opti-math
5th place & 7th place
2015, 2014 | Montreal, QC

University of Waterloo
Gauss Mathematics Contests Distinction
2013 | Montreal, QC

PROJECT

University of Toronto
Linear Regression Models on Infant Mortality Rate in Rural India
2022 | Toronto, ON
Independently designed two linear regression models written in R; wrote IMRAD-structured report and earned 90% for the report.

SUMMARY

Passionate in working with large quantities of data, uncovering insights using probability and statistics, and designing predictive models to anticipate future trends.

EDUCATION

UNIVERSITY OF TORONTO ST. GEORGE CAMPUS
H.B.Sc. Honours Bachelor of Science
September 2019 – April 2023 | Toronto, ON
Mathematics Specialist (Focus in Probability/Statistics) | GPA 3.6/4.0
Mathematics Major • Statistics Major

EXPERIENCE

DELOITTE CANADA | Data Analyst Intern
July 2021 – April 2022 | Toronto, ON

- Validated anti-money laundering models for Scotiabank.
- Independently completed the validation of 8 AML models written in R and Python.
- Extracted 1,000,000 to 20,000,000 entries of transactional data from an Oracle database using SQL and checked the integrity of the data using Jupyter Notebook.
- Validated redemption models for LoyaltyOne using SQL Server Management Studio and provided insights based on the conversion rate of several partners, including Air Miles and American Express.
- Valuated interest rate swaps and commodity swaps, such as natural gas, crude oil, and electricity, using the Bloomberg Terminal; collaborated with a group of seven to complete the valuation of 20 derivative contracts.

Key Skills: Python, R, SQL, Jupyter Notebook, Bloomberg Terminal

SUNLANDS TECHNOLOGY GROUP | Quality Assurance Intern
July 2019 – August 2019 | Beijing

- Filtered through 50000 entries of customer information exported using SQL.
- Created pivot tables from the data mentioned above; analyzed the performance of 6 company sub-divisions based on pivot tables in Microsoft Excel and Tableau.
- Detected a flaw in the awarding system of the company that the employees could potentially exploit; gave a presentation to my superior; led the discussion and drew a conclusion on what could be done about the issue.

Key Skills: SQL, MS Excel, Tableau, Presentation

ADDITIONAL EXPERIENCE

UTACG | President
October 2021 – January 2023 | Toronto, ON

- Presented a Lunar New Year Gala with 30 performers and 200 spectators.
- Generated revenue of $33000 and achieved a net profit of $2200 through the coordination and execution of 12 events.

L'ÉCLIPSE | Co-Founder & Vice-President
October 2016 – May 2017 | Montreal, QC

- Ranked as the top profitable business among participants from all across Quebec.
- Achieved an average ROI of 540% to 30 shareholders.