Michael A Cwikielnik

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Education

Southern New Hampshire University

Master of Science in Data Analytics. GPA 3.923
Relevant Coursework: Advanced Data Analytics, Predictive Analytics, Decision Methods, and Modeling, Present & Visualize Data, Quantitative Analysis

University of Massachusetts

Bachelor of Science in Biology
Relevant Coursework: Probability, and Statistics I, Applied ODE's, Linear Algebra, Microbiology, Calculus III, Population Biology

Projects

- Capstone course final project at SNHU, we tried to discover what variables would be important in extending credit limits to existing customers.
    - A linear regression model was the first tool chosen to analyze the data set.
    - *Funded_amnt* was the dependent variable. The variable sqrt(funded_amnt) yielded a graph closest to a normal distribution. Now sqrt(funded_amnt) was the dependent variable.
    - The model solved that four variables "installment", "emp_years", "il_util", "mths_since_recent_bc" had p-values that beat the alpha = 0.05. The model had an adjusted r-squared: 0.8675. The p-value of the final model was < 2.2e-16.

- Assembled models in Power BI and R that looked in Haas Avocado sales. Each model solved that the conventional avocados, nationally, were $1.16/avocado and organic were $1.65/avocado. Moreover, what was computed was that Hartford-Springfield had the highest price average per avocado regardless of organic or conventional distinction.

- Built a game in Python called *Alien Invaders*. The game is like space invaders from the 1980s. This was an experience that further developed my skills in Python. The project refactored code multiple times to optimized function of classes and increase readability.
    - Compiled several classes and several files to produce a computer game.
    - *Alien Invaders* can used without a mouse, keeps track of scoring, and a variety of settings that affect playability.

- Developed several insights into mass shootings in America. The data set covers shootings from September 2018 – May 2022. What was analyzed was shootings with at least 1 killed and how many. Implemented SQL window functions to facilitate comparisons within the data set. Broadened the insights gained by creating bar charts in Python. The analysis concluded that in the *period of September 2018 – May 2022* that the states with the most shootings where at least person died is *Texas, California, and Illinois.*

- Conducted a study into a credit application data set to see if we could predict future loan defaults. Built a multinomial logistic regression model in R. Reviewed relevant variables like whether the applicant had a co-applicant or a job. What was extracted was to predict future loan defaults, the company needed to look at whether there was a co-applicant or guarantor on the application.
    - Developed a logistic regression model to predict future loan defaults.
    - The final model yielded results that show "co-applicant" and "guarantor" has p-values that beat the alpha = 0.05.

- Tested to see what customers should the Caravan Insurance Company market to keep generating more insurance policies.
    - Engineered a linear regression model with the variable "avg cust type" being the only variable to pass the alpha =0.05.
    - Generated an adjusted r-squared of 0.9861 and an overall p-value of < 2.2e-16.
    - This documented that *customer type* was how the company was going to drive more sales.

- Designed 3 Excel dashboards. The first dashboard examined type vs count. The second dashboard evaluated storm type vs avg cost of property damage. The third dashboard reported month vs sum of property damage data. In the first dashboard, what was interpreted was that Edgartown, Massachusetts top storm concern was wind. Wind was the most frequent storm event. Dashboard 2 diagnosed blizzards drive the most property damage, in dollars. Dashboard 3 exhibited that January and September were the month with the highest property damage totals.

Experience

New York Office of Cannabis Management; New York, NY — March 2023 - present

Statistical Assistant

- Fix Excel data entries in a dataset that holds New York City marijuana arrest data. The goal is to plot the data on a map.
    - We have plotted all 5 NYC boroughs and currently, working through the rest of NY state.
- Write R code for various tasks like transforming a 1.3 million dta file to a csv file, then export it to the working directory or taking discrete arrest data and counting number of arrests per description.
- Create PostgreSQL queries to dive into attendance data for new licensees.

Triple Crown Ale House; New York, NY — Nov 2022 - present

Waiter

- Served customers at an Irish American restaurant.
- Serve customers in a timely, ordered fashion.
- Understanding that business fluctuates based on Madison Square Garden schedule.

Miramar; New York, NY — Feb 2021 - Oct 2022

Waiter

- Served customers at a Greek American restaurant.
- Marketed daily specials to customers on a per-table basis. Devised conversations to recommend items that lead to quality experiences at Miramar but higher check totals.
- Coordinated with coworkers and restaurant leadership to lead a unified effort to achieve a successful shift.
- Solved many customers questions/issues in a way that maximized efficiency and minimized mistakes.

Marathi Greek Bistro; New York, NY — Nov 2021 - Aug 2022

Waiter

- Guided guests through their experience at Marathi- a Greek restaurant inspired by the island of Crete.
- Demonstrated extensive knowledge of the menu, daily specials, specialty cocktails, and Greek wine.
- Gained management's trust via producing increased sales numbers shift over shift.
- Synthesized strategy with coworkers of different languages and backgrounds to facilitate excellent service.

J.P. Morgan Chase; New York, New York — Sept 2018 - Feb 2021

AVP, Private Client Banker

- Generate sales through opportunities from a $100+ million portfolio, in addition, to taking on branch responsibilities.
- Acquiring new business/deepening current relationships by networking, aggressive call blocks, and branch partner relationships.
- Use salesforce to track calls, portfolio numbers, and appointments.
- Understand how deposits, merchant services, cash management and credit impact the customer's day to day business activities.

Core Competencies

APIs ● Data Visualization (dashboards, categorical data, time series data) ● Data Mining ● DB Browser ● Decision Analysis ● Decision Trees ● Descriptive Analytics ● Excel (pivot tables) ● JavaScript ● Jupyter notebooks ● Linear Programming ● Logic and data analysis ● Math (calculus I-III, ODE, linear algebra, statistics, probability) ● Machine Learning ● Markov Processes ● Microsoft SQL Server ● Microsoft Visual Studio Code ● MySQL ● Node.js ● NumPy ● Operations Research ● Oracle ● pandas ● Pattern and Trend Identification ● Predictive Analytics ● Prescriptive Analytics ● Problem-solving and Troubleshooting ● PostgreSQL ● Power BI ● Python ● R ● Rattle ● Regression Analysis ● Relational Databases ● Risk Management ● SQL ● SQLite ● Tableau

Certifications

- NYS Alcohol Training Awareness Program Certification ` — Expires: 07/2026
- Learn2Serve Food Handler Certification — Expires: 07/2026
- New York University; Credit Risk Management Certificate — Dec 2020
- Harvard Business School Online; CORe Certificate — March 2020

Licenses

- SIE
- Series 6
- Series 63