Corey Michaud

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Education

University of Central Florida Orlando, Florida
B.S. Statistics August 2020 - May 2024

Relevant Coursework
Statistical theory, time series, categorical data analysis, linear algebra, calculus, machine learning

Skills

Programming/Scripting Languages: Python, R, SQL, HTML5, CSS3
Data Visualization: Tableau, Power BI, ggplot2, seaborn
Tools: Excel, Git, SPSS

Work Experience

Dang Boba & Musubi House September 2020 - Present
Team Lead

- Managed a team of 13 employees, ensuring accurate order fulfillment and increased efficiency by 90%.
- Implemented quality control measures, reducing product defects and enhancing consumer satisfaction for increased repeat business.
- Utilized data-driven inventory management techniques to minimize stockouts and overstock situations, achieving a 10% decrease in inventory holding costs.
- Analyzed sales data to optimize preparation and ingredient usage, reducing waste and boosting profit margins by 10%.

Projects

Alzheimer's Detection
Python (seaborn, pandas)

- Detection of Alzheimer's disease with handwriting data using a random forest model. Using Jupyter Notebook, the steps are planned out in an easy-to-follow process.
- Python is utilized for its machine learning library sklearn, and seaborn for all visualizations.

Visualization of Crime in Los Angeles
R (ggplot2, dplyr)

- A visualization and statistical analysis of crime in Los Angeles, California. Some graphs are meant to show comparisons in data, while others are meant to show trends.
- R is used for statistical calculations, and ggplot2 for the visualizations.

Neural Network from Scratch
Python (NumPy)

- Developed a custom Multilayer Perceptron (MLP) neural network from scratch using Python and NumPy, demonstrating strong foundational knowledge in deep learning algorithms and neural network architectures.
- Implemented core functionalities including forward propagation, backpropagation, and weight optimization for the MLP, showcasing advanced proficiency in numerical computation and algorithmic problem-solving.

Clubs

Association of Computational Machinery
Participated in club events and seminars to further educate myself about the tech industry.

Knight Hacks
Developed collaboration and programming skills through attending meetings and lectures, and participated in the annual university hackathon.

AI@UCF
Learned about artificial intelligence and its applications in various fields while also gaining experience with algorithms and machine learning.