

William B. Chastain

Links + Contact Info

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Github: <https://github.com/CrazyWillBear>

Education

Bucknell University (Aug 2023 – May 2027)
Bachelor of Science in Computer Science and Engineering, Intended Minor in Physics

Coursework:

Classical and Modern Physics I-II, Data Structures and Algorithms, Statistics and Engineering, Calculus I-II

Experience

Hoover Institution, Data Science Intern (May 2024 – Aug 2024)

- Created visualizations and analysis of YouGov polling data
- Created a tool used to grade free response questions using the OpenAI API
- Tools used include Python, Pandas, R, Git, and Jupyter Notebook

YouGov, Data Visualization Intern (May 2023 – Aug 2023)

- Created visualizations and analysis of YouGov polling data
- Tools used include R and Excel

QOMPLX Inc., Engineering Intern (May 2022 – Aug 2022)

- Worked in a small team developing client-side telemetry collection in C++
- Tools used include Git, Gitlab, VSCode, and exercised important communication and team working skills

Projects

Blogman | Python

- Developed a blog manager/engine in Python using Flask.
- Allows posts to be written in Markdown, categorized using tags and pins, and displayed on the web.
- Configurable and designed for mobile and desktop viewing.
- Utilizes Github workflows for automated testing and code review.

UFC Fight Prediction Model | Python

- Developed a neural network model to predict UFC fight outcomes using scikit-learn's MLPClassifier.
- Processed and cleaned a 6,528-row dataset from Kaggle, handling missing data and feature selection.
- Achieved a ~60% accuracy rate, refining hyperparameters to optimize model performance.

NBA Playoff Prediction Model | Python

- Built a logistic regression model to predict NBA playoff qualification based on historical team stats.
- Engineered custom features like blocks per game, free throws per game, and points per game to enhance prediction accuracy.
- Adjusted probability thresholds to improve model precision, achieving an accuracy of ~78%.

Technical Skills

Languages: Python, Java, C/C++, C#, Golang, and Bash

Tools/Misc: Linux, Git, Github/Gitlab, Jupyter Notebook, Pandas, scikit-learn, VMware, and Excel