BENJAMIN THORPE

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EDUCATION

DUKE UNIVERISTY *B.S. Data Science; Certificate in Innovation and Entrepreneurship*   Graduation in May 2024
- Relevant Coursework: Bayesian Statistical Modeling, Generalized Linear Models, Regression Analysis, Probability for Statistics, Data Science and Society

Ransom Everglades Upper School
- 1570 SAT Score, National Merit Finalist, Cum Laude

WORK EXPERIENCE

BIG LEAGUE ADVANTAGE   **May 2021 – August 2022**
Data Science Intern with the college basketball team

- Produced a **hyperparameter tuned ML model** using XGBoost and HyperOpt to predict the conference level of future college basketball players
- Web scraping AAU game results, box scores and a variety of NBA mock drafts into the company's AWS S3 and database with BeautifulSoup for use in the company's predictive models

DUKE WOMEN'S SOCCER   **May 2022 – Present**
Data Analyst

- Spearheading the development of an online interactive dashboard through Python using streamlit which **the coaching staff uses to influence team and player level decision making**. Have implemented data visualizations, tables, and a network analysis tool using packages such as pandas, matplotlib, and seaborn
- Working to expand and generalize the dashboard into a **commercial product** other collegiate soccer teams could buy for their own use

BAYVIEW ASSET MANAGEMENT   **June 2019 – August 2019**
Data Science Intern with the Portfolio Management Team

- Automated the wrangling of housing data using VBA in Microsoft Excel in conjunction with **SQL** and updated a linear regression model in **Python** to predict sale price of residential properties
- **Presented the improved model's findings to company executives**, highlighting most important areas of improvement for future property acquisition strategy

DUKE UNDERGRADUATE TEACHING ASSISTANT   **January 2023 - Present**
- Responsible for assisting students through my office hours and grading homeworks and exams for Regression Analysis course

PROJECTS

Assessing NBA Players' Political Impact through Twitter   **Fall 2020**
https://github.com/benthorpe33/NBAPoliticalTwitterAnalysis
- Measured the impact athletes have had through social justice posts on social media and analyzed how the public interacts with their political tweets in R

Analyzing what Traits make an NBA Player an Effective 3-point Defender   **Spring 2022**
https://github.com/benthorpe33/DefendingTheThree
- Identified athletic traits in NBA prospects which influence individual 3-point shot defense in R using a multilevel model approach to account for the caliber of their team's defense

SPORTS INVOLVEMENT

DUKE SPORTS ANALYTICS CLUB   **February 2021 – Present**
Co-Founder and Chief Analytics Officer
- Organize relationships with **Duke varsity athletics** to help create student analyst teams for a variety of sports and projects. **Oversee sports analytics project teams** made up of student club members. Have helped create and run **live coding workshops**. Also assist in long-term planning and some administrative work for the club.

DUKE CLUB BASKETBALL   **August 2021 – Present**
Player/Occasional Coach
- Coached team to best tournament finishes of the year in 2021-2022 season
- Current starting guard

RANSOM EVERGLADES VARSITY BASKETBALL   **October 2017 – February 2020**
- Three-year starting point guard and two-year captain. All-Dade honorable mention in the 2018-2019 season