Brennan Gillgrist

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Summary

Data Scientist with a Bachelor's Degree in Statistics and 1+ year of sports and health insurance based experience. Proven results creating College Football Analytics that perform well on Instagram.

Experience

Data Scientist

BG.Analytics · Columbia, SC   08/2024 - Present

- Created statistical models predicting the outcome of College Football Games to post on Instagram along with many large fan pages (@BG.Analytics).
- Simulated the college football season based on win percentages to calculate expected season win totals and predict bowl eligibility.
- Designed the "Playoff Points" model to predict and visualize how teams make the College Football Playoffs.
- Built a Streamlit dashboard to display game probabilities and season outlooks for every FBS football team.

Analyst, Statistical Programming I

BlueCross BlueShield of South Carolina · Columbia, SC   01/2025 - Present

- Manage and update Microsoft Excel trend models by importing SQL queries and writing Excel VBA Macros for automating the process.
- Write SQL queries and SAS Code for pulling membership data and sending roster reports to different providers each month.
- Develop Propensity Score Models for comparing health outcomes of members enrolled in Value Based Programs.

Data Analyst

Arroyo Seco Saints · Pasadena, CA   06/2024 - 08/2024

- Worked on various coding projects listed in the Projects section
- Created positioning cards from Synergy data for each game to increase defensive performance.
- Operated TrackMan and Pointstreak for data collection and game scoring for all home games.
- Set up six cameras around the stadium and uploaded the footage to Synergy after each home game.
- Communicated TrackMan data in-game to the hitting coaches as an added method of real time pitcher scouting.
- Conducted league-wide TrackMan and Synergy Audits to ensure each team was consistently uploading.
- Recruited college players and created a database for next season's possible roster options.

Technology Operator

Tampa Bay Rays · Charleston, SC   05/2023 - 09/2023

- Operated the TrackMan radar for the Charleston Riverdogs, the single A minor league team for the Tampa Bay Rays.
- Analyzed key metrics like velocity, spin rate, and more to identify pitch type.
- Inputted play-by-play information for each pitch that was used for statistical analysis.
- Learned how to score baseball games and ensure data accuracy.

Skills

Data Analysis, SQL, Excel, R, Python, Streamlit, SAS, Tableau, Statistical Analysis, Statistical Modeling, Machine Learning, JavaScript, Teamwork, Communication skills, Customer service, Time management, Leadership Experience, TrackMan Baseball, Synergy Baseball, Baseball Scouting, Baseball Recruiting

Education

Bachelor of Science in Statistics

University of South Carolina · Columbia, SC   12/2024

3.901 GPA

Projects

- Created a College Football Dashboard that displayed game level outcomes and season long simulations for every FBS team. (BG.Analytics)
- Designed a baseball lineup optimization tool in Python by simulating baseball games and using Linear Regression to predict number of runs by batting order. (Arroyo Seco Saints)
- Developed code in R Shiny for a baseball analysis tool that generates hitter reports, pitcher reports, ANOVA, and player comparison charts as selected by the user. (Arroyo Seco Saints)
- Designed and implemented a Bayesian Linear Regression predicting the win percentage of NFL teams based on the total cap space percentage of each position group. (UofSC)