Richard Lim

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Education

Villanova University   May 2024
B.S. Statistics; Minor in Mathematics | GPA: 3.51
Coursework: Algorithms and Data Structures I and II, Applied Statistical Models, Data Base Systems, Discrete Mathematics, Mathematical Statistics I, Linear Algebra, and Calculus I, II, and III, Math Statistics I, Design of Statistical Experiments.

Experience

Villanova Baseball   **Villanova, PA**
Data Analyst   February 2022 - Present
- Utilized R and Synergy Baseball software to analyze opponents' data and communicate findings with the analyst team.
- Produced in-depth scouting reports with data analyses on opposing teams' pitching and hitting tendencies, which contributed to the team's improved record from 3-13-1 to 16-16.
- Strong written and verbal communication skills were utilized to present data analyses to coaches and implement player development strategies.

Villanova Recreation   **Villanova, PA**
Fitness Center Receptionist   August 2021 - Present
- Demonstrated proficiencies in telephone and front desk reception within a high-volume environment.
- Ensured workout areas were in order and cleanliness was maintained during the Covid pandemic.
- Minimized customer complaints through communication with patrons regarding masking policies.

Colorado Summer Institute in Biostatistics (CoSIBS)   **Denver, CO**
Fellow   June 2022 – August 2022
- Implemented machine learning techniques, including random forest modeling, to a large dataset and identified predictors of obesity in American youth.
- Utilized techniques like data cleaning and data visualization to create a presentation given to non-technical audience. Produced visual models of geospatial distribution, decision tree, and partial dependence plots using RStudio.
- Collaborated on a 6-hour long project to implement machine learning models, including random forest and linear regression, to predict the length of patient intubation based on pre-screening survey data.

Projects

Predicting 2023 NBA Free Agency Per Year Salaries | R / Tableau / Excel / Kaggle
Performed data collection, cleaning, and analysis on Per Game and Advanced stats of 2022 NBA free agents on their most recent playing season. Created a multiple linear regression model and identified significant factors that contributed to per year salary and implemented to 2023 NBA Free Agency class. Created dashboards for visualizing insights with Tableau.

Performing Full Factorial Design To See Which Factors Affect Free Throw Percentage | R / Excel / Report
Designed and performed a Full Factorial experiment to find which of three factors impact Basketball free throw percentage. Utilized R to generate and analyze interaction plots, ANOVA tables, and residual plots to uncover influential drivers of free throw percentage.

Activities

Sports Analytics Club, Villanova University   August 2021 - Present
Club Sailing, TIDE Representative, Villanova University   August 2021 - Present
- Elected DEI representative for team in conference meetings; led team in discourses on diversity, equity, and inclusion and how to present themselves in a predominantly Caucasian sport.

Villanova Leadership Program, Villanova University   January 2022 - April 2022

Skills

Technical: Python (Object-Oriented Programming), R (Data visualization in R Shiny), Java (Object-Oriented Programming), Regression, SQL, Microsoft Excel (Power Query, V-Look Up, Pivot Tables), Microsoft Word, and Microsoft PowerPoint.
Languages: Fluent in English and Korean, proficient in Spanish.