**PROFILE:**

6+ years of model building experience in research settings with a specialty in method development, pipeline construction, and data analytics. Skilled at communicating results in an easy to comprehend manner while prioritizing interpersonal relationships and a friendly, optimistic attitude. Insightful, driven, and beyond all else, passionate.

**EDUCATION**

**University of Pittsburgh**

Expected graduation: April 2023

Bachelor of Science in Statistics, Minor in Mathematics, Minor in Computer Science (In Progress)

**Overall GPA: 3.69/4.00, Major GPA: 3.79/4.00**

**RELEVANT EXPERIENCE**

**Founder (01/2019-Present)**

**RabbitOdds**

* A sandbox to develop predictive modeling skills in a baseball setting.
* Constructed a novel methodology using a combination of distributional statistics and gradient boosting to predict MLB wins at a better rate than major sportsbooks DraftKings and FanDuel (Higher AUC and overall accuracy).
* Optimize bet placement by leveraging predictions with sportsbook expected values.
* Scrape MLB game results and posted betting odds daily using Selenium.
* Constructed the company from the ground up, including building up a small but loyal customer base, designing the logo, and handling all business operations. See [@RabbitOdds](https://www.instagram.com/rabbitodds/) on Instagram for more information.

**Student Researcher (04/2021-Present)**

**University of Pittsburgh (PI: Jishnu Das)**

* Collaborated with a team of post doctorates and PhD students to develop a user-intuitive pipeline to run [Essential Regression](https://pubmed.ncbi.nlm.nih.gov/35607614/), an interpretable latent factor clustering method capable of biological inference.
* Conducted research on predictive modeling for both systemic and localized scleroderma severity using single-cell RNA sequencing data (see projects and publications for more).
* Built a pipeline to wrangle high-dimensional data from Seurat into a manageable structure, as well as to utilize LASSO, random forests, essential regression, and principal component analysis.

**Peer Tutor (01/2021-01/2022)**

**University of Pittsburgh Study Lab**

* Tutor college students in statistics and data science courses.
* Received formal training in education and the learning process.

**Research Analyst Intern (04/2020-01/2022)**

**The University of California, Irvine (PI: Dr. Elani Streja)**

* Led research about predictive modeling on the decline of residual renal urea clearance (KrU) in dialysis patients.
* Collaborated with UCLA clinicians on 3 separate projects (see projects and publications for more).

**DataJam Competition Mentor (01/2020-12/2022)**

**University of Pittsburgh / Oakland Catholic High School**

* Taught regression and introductory statistical concepts to high school students.
* Led lectures for other college student mentors on regression and how to properly introduce these concepts to high school students.
* Assisted with student-run projects by offering suggestions and guiding analysis.

**SKILLS**

**Programming Languages:** Java, R (language of choice for analysis), SQL, STATA, Python (experienced with both Pandas and NumPy), SAS, JavaScript

**Technical Tools:** Excel, Tableau, MySQL, Markdown, Jupyter Notebook, RStudio, Tensorflow, BioRender, Apache Hive, EC2, High Throughput Computing

**Languages:** English, Spanish (can write / understand fluently)

**PROJECTS AND PUBLICATIONS**

[Project List on GitHub](https://github.com/JB3rk/Introduction/blob/main/Projects_and_Publications.pdf)