

Ajay Patel

(973)-617-7032 | ajpat8703@gmail.com | Warren, NJ | [LinkedIn](#)

EDUCATION

University of Rochester, Rochester, NY

August 2021 – December 2024

Bachelor of Science, Data Science Major – Current GPA: **3.99/4.00**

Relevant Courses: Tools for Data Science, Data Structures and Algorithms, Linear Algebra, Intro to AI, Database Systems, Data Mining, Statistical Modeling

EXPERIENCE

Los Angeles Dodgers, Los Angeles, CA

May 2024 – August 2024

Baseball Strategy and Information Intern

- Created and led the integration of proprietary sliding metrics in Python and SQL from 3D tracking data
- Developed and presented on statistical models in R which analyzed player development across all MLB teams

University of Rochester, Rochester, NY

August 2023 – May 2024

Teaching Assistant for Intro to AI & Data Mining

- Led study sessions of approximately 5-10 students to review material in Java and Python
- Graded numerous projects and facilitated the distribution of grading assignments amongst other TAs

Optum, Basking Ridge, NJ

June 2023 – August 2023

Technological Development Program Intern

- Created a web application using React and Node.js frameworks to host behavioral therapy data to improve accessibility and quality of data for therapists and their patients
- Developed back-end connectivity through SQL and API endpoints and improved front-end design for users utilizing React, CSS, and HTML

Shot Quality, Warren, NJ

May 2022 – Dec 2022

Data Science Intern

- Implemented numerous projects to improve our core algorithms, functionalization and understanding of contemporary basketball data through R
 - Collaborated daily with team members, setting and meeting deadlines, and executing code scripts
-

LEADERSHIP & EXTRACURRICULARS

University of Rochester Independent Studies, Rochester, NY

August 2023 - Present

Research Assistant

- Analyzed possible political biases in AI image tools in Python using computer vision and scraping techniques
- Created a F1 race simulator to identify effective pit stop strategies using tree-based modeling

NFL Big Data Bowl, Indianapolis, IN

November 2022 – March 2023 & November 2023 - February 2024

[Finalist](#) (2023) / [Runner-Up](#)

- Presented work on an expected pass rush metric using XGBoost analyzing team schemes at the NFL Combine
- Trained a PyTorch CNN to predict yards after the catch based on spatial data of all players and created subsequent scouting reports and team-analysis charts

Exit Velocity Over Expected, Warren, NJ

July 2022

Creator

- Trained a XGBoost model to predict exit velocities of batted balls in MLB and explained my [methodology](#)
 - Created a [Shiny App](#) to host the resultant data and effective visuals made through ggplot2, gt, and more
-

SKILLS/INTERESTS/LINKS

- R, Python, Data Visualization, Database Management, Java, Javascript (React, Node), Postman, SQL, Excel, XGBoost, Random Forests, Linear Regression, Public Health and Biostatistics
- Github: <https://github.com/ajaypatell8> & Medium: <https://medium.com/@ajaypatell8>