Zayan Niaz

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EDUCATION

PURDUE UNIVERSITY - West Lafayette, Indiana   Aug 2024 – May 2028
B.S in Computer Science, Applied Statistics
Extracurriculars: Society of Asian Scientists and Engineers, Sports Analytics at Purdue

CARNEGIE VANGUARD HIGH SCHOOL - Houston, Texas   Aug 2020 – May 2024
GPA: 4.71/4.0
Extracurriculars: VEX Robotics, First Robotics, Junior State of America, Varsity Volleyball

SKILLS

Languages: Python, Java, C++, R, HTML, CSS, SQL
Concepts/Frameworks: Statistical Modeling, Machine Learning, Pandas, PyBaseball, YFinance, Numpy

EXPERIENCE

Homerun Hitters International, Inc.   July 2016 – July 2023
Junior Director
- Spearheaded the organization and execution of Camp M.I. Way, a volunteer summer camp experience for motion, hearing, and visually impaired children and teens in Greater Houston.
- Trained and mentored over 30 new middle and high school camp counselors annually, ensuring smooth camp operations and enhancing participant engagement.
- Led logistics coordination, overseeing the setup, maintenance, and troubleshooting of camp facilities.

Harris County Election Office   Feb 2022 – May 2022
Student Technician Election Clerk
- Directed a team of election officials in setting up and linking over 40 voting machines to Harris County's voting system for Texas Primary Election.
- Troubleshooted and resolved technical issues with voting systems on-site, ensuring seamless voting experiences for over 750 voters.

RESEARCH

The Data Mine, Purdue University   Aug 2024 – April 2025
Undergraduate Data Science Researcher
- Collaborated with Purdue Athletics Strength and Conditioning team on leveraging athlete metrics and analytics to minimize injury and maximize training regimen efficacy.
- Trained to use R, SQL, and Python in TDM 10100 to work as a Data Science researcher.

PROJECTS

The Impact of MLB Catchers' Pitch Framing Abilities on Pitcher Success   Aug 2023 – March 2024
- Quantified catchers' pitch framing abilities using average run expectancy for respective counts and organized data to see the impact of framing on pitcher success.
- Utilized Python and official MLB Statcast data; cleaned, manipulated, and analyzed three seasons' worth of data.

Effects of Competition on Stock Prices Based on Corporate Events   Aug 2022 – May 2023
- Quantified impact of competition in the form of competitors' corporate events on stock prices of technology companies in 2010s.
- Analyzed historical stock data using an event study methodology in Python.

Baseball Pitch Type Predictor   Nov 2022 – Jan 2023
- Built a pitch type predictor using Python (Pandas, Numpy, Scikit-Learn) and PyBaseball, achieving 70% accuracy in predicting pitches across various test datasets.
- Implemented Random Forest Classifiers and Support Vector Machine models, refining the prediction system for improved accuracy and utility in real-time game analysis.