Nicholas Hazzard

San Diego, CA | nicholashazzard13@gmail.com | + 1 (619)-995-5645 | LinkedIn URL | Personal Portfolio

SUMMARY

Mathematics student skilled in Python, SQL, and interpersonal communication. Focused on leveraging exceptional problem solving ability with statistical methodologies and programming to deliver data-driven insights.

EDUCATION

California Polytechnic State University - San Luis Obispo
BS, Mathematics
• GPA : 3.86
• Expected Graduation Date : June 2027
• Relevant Coursework : Multivariable Calculus, Linear Algebra, Statistics, Data Structures, Differential Equations, Physics

PROJECTS

FantasyLine

• Built Python pipeline to scrape, clean, and structure 500+ weekly NFL sportsbook player props
• Constructed probabilistic model converting sportsbook odds into fantasy point projections for 200+ NFL players, deployed via Streamlit app to support users in setting weekly fantasy lineups and evaluating betting lines

NFL Touchdown Regression Visualization

• Created linear regression model using volume and yardage features to forecast 2025 touchdown regression candidates
• Generated interactive Tableau dashboard that provides users draft insights by visualizing correlations between touchdown rates and overperformance/underperformance for RBs, WRs, TEs

Swarm Intelligence Trading Agent

• Engineered algorithmic trading ensemble that leverages swarm intelligence to optimize investment strategy based on recent performance and market conditions
• Backtested and evaluated performance across 11 assets and achieved positive annual returns for 82% of tested tickers over 6 month period

EXPERIENCE

San Diego Elevate Baseball Club - *Coach* (*Part-time,* 2023-2024)

• Managed training and development for 6 club teams ensuring practice plans optimized player development
• Performed statistical analysis on 100+ athletes performance data (i.e. batting splits vs. LHP and RHP) to create data-driven lineups
• Applied mathematical framework to hitting mechanics, emphasizing launch angle correlation with base hit probabilities

Cal Poly Quantitative Finance Club - *Member* (2025-Present)

• Develop statistical and machine learning models in Python
• Backtest trading strategies and analyze annual returns, sharpe ratios, and trading frequencies
• Collaborate with peers to apply quantitative methods and develop solutions to financial/probability problems

Ralphs - *Courtesy Clerk (Part-time,* 2022-Present)

• Manage inventory workflows in a fast-paced retail environment, ensuring accurate truck delivery processing
• Foster meaningful interactions with customers to promote customer retention

TECHNICAL SKILLS

• Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, Tableau, JMP, Jupyter Notebook, Google Colab