




# Diego Osborn

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## EXPERIENCE

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- Data Analytics Intern** | *UC San Diego Career Center* Sep 2024 – Present
- Performed EDA and cleaning on career outcomes data for 12,000+ graduates to support the development of an interactive Power BI dashboard—highlighting insights on salary trends, industries, and top employers for student career planning
  - Built a PostgreSQL database to store and query 100,000+ Handshake accounts; categorized alumni by graduation year and degree type, and facilitated the archival of alumni accounts for improved data organization and historical tracking
- Baseball Analytics Intern** | *UC San Diego Baseball* Feb 2023 – Present
- Automated 40+ opponent scouting reports and conducted ad-hoc analytical projects to enhance game preparation, contributing to UC San Diego's 2023 NCAA Division-1 Baseball Big West Conference Championship
  - Generated pitching report graphics, summarizing pitch metrics (e.g., velocity, movement profiles) and visualizing pitch location and break patterns to support coaches in post-game analysis and player development
- Baseball Analytics Intern** | *Palm Springs Power Baseball* Jun 2023 – Jul 2023
- Developed an interactive [Looker dashboard](#) with visualizations to assist players and coaches in evaluating pitch effectiveness and batted ball metrics by analyzing live in-game pitch data from FlightScope

## PROJECTS

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- Home Price Evaluator: Determining Market Value** | *Python, Pandas, scikit-learn, Matplotlib, Seaborn* Feb 2025–Mar 2025
- Collaborated to develop and optimize a LightGBM regression model on 2.2M+ real estate listings, integrating geospatial, demographic, and economic data to enhance price predictions
  - Engineered zip code-level features by calculating proximity to universities using the haversine formula and applying geodemographic segmentation to classify homes into home type (e.g., ranch, luxury home, tiny home, etc.)
  - Created a valuation framework comparing listed vs. predicted prices, identifying 10.5% of properties as undervalued, enabling investors to target high-potential opportunities
- Spotify Statistical Analysis** | *Python, SciPy, Statsmodels, scikit-learn, Matplotlib, Seaborn* Feb 2025–Mar 2025
- Collaborated to analyze 100,000+ Spotify tracks with hypothesis testing and PCA to identify key audio features influencing song popularity, helping artists and streaming platforms optimize advertising strategies
  - Built a logistic regression model to determine the factors that differentiate "popular" from "not popular" songs, with an AUC score of 0.6226—slightly better than random guessing
- Power Outages Statistical Analysis** | *Python, Pandas, scikit-learn, Plotly* Jun 2024
- Analyzed U.S. power outage data (2000–2016) to identify key factors affecting major outages; built a RandomForestRegressor model for energy consumption to help power companies improve outage response
  - Engineered features related to seasonality, climate, economic indicators, and region; conducted hypothesis testing and missingness analysis; implemented a machine learning pipeline for regression modeling

## SKILLS

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**Languages:** Spanish (fluent)  
**Programming Languages:** Python, R, Java, HTML5,  $\text{\LaTeX}$   
**Tools/Databases:** SQL, PostgreSQL, SQLite, Tableau, Power BI, Looker  
**Libraries:** Pandas, NumPy, Matplotlib, scikit-learn, Seaborn, Plotly, SciPy, Psycog2, Statsmodels

## EDUCATION

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**University of California, San Diego** Sep 2022 - Jun 2026  
*B.S. Data Science; Minors: Economics, Mathematics*

**Relevant Coursework:** Probabilistic Modeling and ML, Relational Databases, Statistical Methods, Probability Theory, Exploratory Data Analysis & Statistical Inference, Representation Learning

**Honors:** UCSD Eleanor Roosevelt College Honors Program, Provost Honors (2x)