

Ty Albao

[Personal Portfolio](#) | 951-526-7249 | [Ty Albao](#) | [GitHub](#) | [LinkedIn](#)

EDUCATION

University of California, San Diego – B.S. in Data Science, minor in Mathematics

September 2023 – Present

- 3.79 GPA through two years
- Relevant courses: Modeling and ML, Representation Learning, Data Management, Data Visualization, Probability & Statistics, Data Structures & Algorithms

EXPERIENCE

UCSD NCAA D1 Baseball Team, La Jolla, CA – Data Analyst

October 2025 – Present

- Collect, clean, analyze, visualize data from Trackman
- Create models and scouting reports for coaches and players as needed

Halicioğlu Data Science Institute, La Jolla, CA – Tutor

September 2024 – Present

- Tutor for DSC 20, Programming and Data Structures for Data Science
- Write tests, grade exams, assist students with deeper understanding in office hours and online Q&A

Data Science Alliance, San Diego, CA – Data Science Intern

July 2024 – November 2024

- Collaborate with coworkers and work individually on projects that help the community of San Diego County
- Research and clean large datasets, create detailed customized interactive maps in Tableau and using GeoJSON files

PROJECTS

MLB Automatic Ball-Strike (ABS) Helper – Individual Project

- Built and validated XGBoost models to estimate challenge success probabilities from pitch, game-state, and umpire data
- Feature engineered 100,000 Statcast pitches to maximize win expectancy, visualized model insights through heatmaps and an interactive application to inform strategic decision-making for MLB teams

SMT Data Challenge – Individual Project

- 1 of 4 finalists out of 114 contestants
- Cleaned and manipulated raw player-tracking data to derive crucial game-state information
- Built and validated XGBoost model to estimate baserunning advancement success probabilities on infield ground balls to grade teams' and players' quick decision making skills on the basepaths

League of Legends Data Analysis and Classification – Partner Project

- Performed data cleaning, hypothesis testing, and EDA
- Built and validated Random Forest Classification model to predict position type to achieve 94% test accuracy

REFERENCES

Marina Langlois – DSC 20 Professor

malanglois@ucsd.edu

Dr. Meredith Wills – SMT-U Lead & Advisor

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