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

Halıcıoğlu 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

Biokind Analytics, La Jolla, CA - *Data Analyst*
February 2024 - June 2024

- Provide free data analysis to non-profit organizations
- Create maps using GeoJSON files and mapping libraries in Python to inform clients on target demographics

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

Adir Mancebo - *DSA Project Manager*
adir@datasciencealliance.com