

Taylor Villahermosa

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EXPERIENCE

SAP

Palo Alto, CA

Associate Data Scientist

Jan 2020 - Present

- Improving a Python web service for building usage graphs from tracked user-behavior data by debugging, writing unit tests, and refactoring code
- Designed and developed a machine learning driven sales forecasting model to provide SAP Cloud for Customer users with a reliable prediction of sales revenue
- Enhanced item recommendations and evaluated catalog quality in SAP Ariba Guided Buying with Bayesian and NLP methods
- Created and presented data science workshops for a global audience of interns and new hires (topics include: Recommendation Systems, Jupyter Notebooks, Evaluation Metrics)
- Conducted behavioral and technical interviews for recent graduate and internship program candidates
- Ambassador for Women in Data Science Silicon Valley @ SAP

UCSB Baseball

Santa Barbara, CA

Analytics Intern

Jan 2019 - Dec 2019

- Coding Research Team Lead: led and organized meetings focused on statistical analytics projects to support player development and game strategy
- Streamlined the process of creating advanced game statistics for player evaluation by automating calculations with R and SQL
- Produced data visualizations and statistical recaps of player performance for @SBBBaseballData on Twitter

UCSB Education Abroad Program

Santa Barbara, CA

Global Intern

Jan 2019 - Dec 2019

- Technical & Data Analytics Committee Leader: managed team of interns and supervised technical projects to improve the study abroad program
- Led and organized presentations for outbound and prospective study abroad students

PROJECTS

- **2021 Solve SAP Challenge (Hackathon):** Designed a platform for a mentor-mentee matching algorithm to improve efficiency within internal programs at SAP
- **The Reality of NCAA Division I Baseball Strike Zones:** Created a statistically sound strike zone using logistic regression
- **The Impact of Off-Speed Pitches:** Analyzed the optimal sequencing and speed differentials of off-speed pitches for collegiate baseball pitchers

SKILLS

Programming: Python, SQL, R, C++, SAS

Libraries: NumPy, pandas, Matplotlib, scikit-learn, TensorFlow, tidyverse, rstan

Tools: Excel, Git, LaTeX, SAP Leonardo Machine Learning Foundation

Concepts: Probability, Regression Analysis, Linear Algebra, Bayesian Statistics, Time Series

EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

B.S. Statistics and Data Science, with Honors

Sep 2017 - Dec 2019