SARA ANTENTAS OLIVERAS

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EDUCATION

Master of Science in Business Analytics, Rady School of Management   06/2025
University of California, San Diego, CA
- Relevant courses: Customer Analytics, Web Mining and Recommender Systems, Business Intelligence Systems.

Bachelor of Science, Mathematics   06/2024
University of Barcelona, Barcelona, Spain
- Distinguished for academic excellence in the University Entrance Exam by the Catalan Government and graduated with honors in baccalaureate (06/2019).
- Relevant courses: Algebra, Real Analysis, Probability Theory, Numerical Methods, Topology, Graph Theory.

Bachelor of Science, Physics   06/2024
University of Barcelona, Barcelona, Spain

EXPERIENCE

Teaching Assistant, University of California San Diego, San Diego, California   09/2024 – Present
UCSD Linguistics Language Program offers comprehensive language instruction across multiple levels.
- Teaching Assistant in Spanish elementary courses. Developed lessons and kept track of students' performance through multiple graded activities and exams, reviewing preparation of 30 students.

Physics and Mathematics private tutoring, Self-employed, Vic, Barcelona   09/2021 - 06/2023
- Provided personalized tutoring in math and physics to 15+ high school and college students, enhancing their understanding and performance across various topics.

PROJECTS

Capstone Project, MSBA project, Rady School of Management   03/2025 – 06/2025
- Serving as a Business Analyst in partnership with a retail company (confidential) to build a machine learning model for demand forecasting and inventory optimization. Focused on reducing excess inventory and improving product availability to increase sales and operational efficiency.

Modeling Dentist Recommendations in California: A Recommender System Based on Google Reviews,   12/2024
MSBA project, Rady School of Management
- Processed and cleaned raw data from Google Reviews to ensure quality and usability. Built a recommender system for dentists using Random Forest and Latent Factor Models, incorporating user behavior and optimizing performance. Achieved MSE scores of 0.819 and 0.824, demonstrating model accuracy and effectiveness.

TradeTrends: Insights for Smarter Market Moves, MSBA project, Rady School of Management   11/2024
- Collaborated in a team of 5 to develop a Tableau dashboard to guide beginner investors by analyzing 2014-2024 market data. Segmented stocks by market cap and implemented an investment ranking system using ESG metrics, revenue, and earnings growth. Enhanced filtering and data visualization to deliver actionable investment insights.

ETL (Snowflake and Python) Assignment, MSBA project, Rady School of Management   08/2024
- Developed and optimized scalable data pipelines in Snowflake to study discrepancies between invoice and purchase order amounts, exploring potential correlations with weather conditions. Used Excel for data preparation and analysis.

SPECIALIZED SKILLS

- **Languages/Coding:** Python (e.g., pandas, polars, numpy, matplotlib, seaborn, scikit-learn), SQL, ETL, C++, LaTeX.
- **Tools:** Snowflake, Tableau, Excel, Microsoft Windows.
- **Spoken Languages:** English (professional proficiency), Spanish (native), Catalan (native).
- **Certifications:** Cambridge English: B2 First (FCE) (06/2016), Cambridge English: C1 Advanced (CAE) (06/2017), TOEFL iBT (09/2023).

PROFESSIONAL AFFILIATIONS & LEADERSHIP

- Volunteer: Organization of the *Soeurs Missionaires des Sacrés Coeurs de Jésus et de Marie*, Rukara,   02/2023
Rwanda. Helped with 5+ infants in child nutrition center. Cooperated with maternity center and town pharmacy.
- Member: Track & Field Team, University of Barcelona. Participated in athletics competitions.   09/2021 - 06/2022
- Member: Track & Field, Athletics Club of Vic (Spain). Competed in races indoors and outdoors.   09/2015 - 06/2019