Carlos Ariel Espinosa Valdéz

✉ espinosa.vca@gmail.com

in Profile   ○ Portfolio

Data Scientist

Motivated mathematician and data scientist adept at leveraging data for informed decision-making. With a solid foundation in statistics, data analysis, problem-solving, and self-learning. Skilled in various data analysis and visualization tools including Python, R, SQL, Power Bi, and Tableau. As a data scientist, I bring a blend of academic research experience and practical expertise in applying advanced data analysis techniques in real-world settings, driving organizational growth and enhancing asset value.

Relevant Skills

- Data Analysis (Python, R, MATLAB)
- Data Visualization (Matplotlib, Seaborn, Tableau, Power BI)
- Data Bases (Pandas, MySQL, SQL Server, Excel)
- Statistical Analysis (Regression, Classification, Clustering, Time Series Analysis, Statistical Inference)
- Machine Learning (Supervised and Unsupervised Learning)
- Problem-Solving
- Critical Thinking
- Attention to Detail
- Communication

Work experience

Research Assistant
Center for Research in Mathematics

Guanajuato, Mx.
March 2024 - Present

- Creating detailed weekly reports on my results and progress.
- Consistently meeting a variety of objectives within specified time frames.

Data Scientist
XVII Industrial Problem Solving Workshop (Center for Research in Mathematics)

Guanajuato, Mx.
January 2024

- Received an assignment from Harinera de Irapuato S.A. de C.V.
- Defined objectives and established key indicators.
- Conducted exhaustive research on several topics.
- Applied ETL techniques to both public and private databases.
- Performed appropriate analysis using time series and neural networks.
- Presented findings and recommendations to the company.
- Improved the company's operational efficiency.

Teacher Assistant
Center for Research in Mathematics

Guanajuato, Mx.
August 2020 - November 2023

- Facilitated the understanding of complex concepts.
- Fostered an engaging learning environment for students with diverse backgrounds.
- Prepared weekly reports on student performance.

Research Assistant
University of Guadalajara

Jalisco, Mx.
June 2015 - August 2016

- Converted a program written in C++ to Python.
- Identified improvements to the program.
- Created appropriate visualizations in MATLAB.

Education

Ph.D. in Mathematics
Center for Research in Mathematics

Guanajuato, Mx.
August 2019 - November 2023

Master of Science in Mathematics
Center for Research in Mathematics

Guanajuato, Mx.
August 2017 - July 2019

Bachelor of Science in Mathematics (Summa Cum Laude)
University of Guadalajara

Jalisco, Mx.
August 2012 - April 2017

Certifications and Training

- Power BI Course: Data Analytics and Business Intelligence (View Certification)
- The Data Science Course: Complete Data Science Bootcamp 2024 (View Certification)
- Google Data Analytics Certificate (View Certification)