

ALEJANDRO SILVA RODRÍGUEZ

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Málaga, España

RESUME

Passionate Data Scientist with a strong background in data analysis, machine learning, data visualization, and large language models. Proficient in Python and R, with the ability to apply advanced artificial intelligence techniques in real-world settings. Seeking opportunities to contribute to innovative projects and enhance efficiency through data-driven solutions.

SKILLS

- **Programming Languages & Frameworks:** Python, R, Java, SpringBoot, Angular, C#, Bash
- **Database Systems:** SQLServer, MySQL, MongoDB
- **Data Science & Machine Learning:** Python, R, Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Hugging Face, Ollama, Matplotlib, Plotly, RStudio, Quarto, Knime
- **Data engineering:** ETL, PowerBy, Data Warehouse, XML, RDF, OWL, SPARQL, MDX
- **Cloud & DevOps Tools:** AWS, Docker, Linux, Git
- **Soft Skills:** Adaptability, Critical Thinking, Ability to Learn Quickly, Time Management, Empathy, Ability to Work Under Pressure, Initiative.

LANGUAGES






Spanish: Native

English: Advanced (C1 Cambridge Certified)

EDUCATION

- **University of Málaga** Expected Graduation : 2025
Health Engineering (Bioinformatics) Málaga, España
 - Average grade: 8.33/10

PROJECTS

- **Breast Cancer Analysis and Prediction** June 2024
Tools: R, Shiny, Quarto, ggplot2  
 - Developed and analyzed various machine learning algorithms to predict survival rates for breast cancer.
 - Implemented a web application allowing users to predict their survival rate based on the best model.
 - Created visualizations to display results and facilitate data interpretation.
- **GymDiary: Workout Tracking Web Application** August 2024
Tools: React.js, Node.js, Express.js, MongoDB  
 - Designed a web application for tracking workouts and nutrition, including meal logging, exercise tracking, and progress monitoring.
 - Used React.js for the frontend and Node.js with Express.js for the backend, deploying the app on Vercel and GitHub Pages.
 - Managed data in JSON format with MongoDB and accessed APIs for third-party information.
 - Implemented an interactive and adaptive user interface, optimizing reactivity and user experience.
- **Medication Expense Analysis: Data Warehouse for U.S. Hospitals** February 2025
Tools: SQL/OLAP, ETL, MDX, Power BI 
 - Designed a data warehouse to analyze medication expenses in Intensive Care Units (ICUs) across hospitals in the U.S.
 - Implemented an ETL process to structure and transform clinical data into an optimized format for analysis.
 - Created a multidimensional OLAP cube and used MDX queries to perform advanced analytics on medication consumption patterns.
 - Developed interactive Power BI reports to visualize trends and support decision-making in hospital resource management.

PROJECT LEADERSHIP

- **Therapy Management Project**

Database Project

- Took on the role of selecting the technologies that best suited the project requirements and the team.
- Played a significant role in estimating tasks and managing changes to them.

June 2024



COURSES

- **Machine Learning and Big Data for Bioinformatics, University of Granada (100 hours)**

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April 2023