Alexander Eduardo Rojas Garay
Data Scientist / Data Analyst
Mexico City – LinkedIn - Phone: +52 722-559-7963 - Email: rojasalexander10@gmail.com

Passionate about data science and analysis, with solid experience in machine learning and predictive modeling. I specialize in Python, SQL, Looker Studio, and key data analysis libraries (numpy, pandas, matplotlib, seaborn, TensorFlow, PyTorch, scikit-learn, PySpark). I am seeking opportunities in data analysis and data science, where I can contribute with my technical skills and ability to solve complex, data-driven problems. Additionally, I have written and published scientific articles, including one on the 2024 Nobel Prize in Physics, discussing its relevance to neural networks and real-life applications.

Professional Experience

Institute of Mathematics (UNAM), Mexico City
Data Scientist - Present

- Conducted advanced statistical analyses and predictive modeling for research projects in applied mathematics and data science.
- Developed and optimized machine learning models for complex prediction and classification problems using TensorFlow and scikit-learn.
- Implemented data visualization solutions using Looker Studio and matplotlib, enabling data-driven decision-making for various projects.

Colmena Space (Institute of Nuclear Sciences), Mexico City
Machine Learning Engineer - 2022 - 2023

- Developed simulation and prediction tools to optimize the trajectory of a lunar probe.
- Built precise models using Python, Keras, TensorFlow, and scikit-learn, improving decision-making efficiency.
- Leveraged cloud services (AWS, Azure) to scale and optimize machine learning solutions.

Aerospace Association of the Faculty of Engineering (UNAM), Mexico City
Data Analyst - 2021 - 2022

- Conducted experimental data analysis and visualized rocket launch results using Python, R, and numerical analysis tools.
- Improved the performance and precision of experimental launches through statistical analysis and predictive models.

Freelancer, Mexico City
Web Developer - Presente

- Designed and developed dynamic, responsive websites using JavaScript, PHP, CSS, Bootstrap, and jQuery.
- Highlighted projects: Development of **infrax.mx**, **Tecistem.com**, **masmigrar.com**, among others, which are project management platforms for infrastructure projects.

Instructor in Data Science and Data Analysis

Mexico City - 2023 - Present

- Delivered specialized courses in data analysis and data science, training professionals in Python, SQL, and advanced machine learning tools.

Education

Bachelor's in Physics and Mathematics

National Autonomous University of Mexico (UNAM), Mexico City
August 2019 - July 2024

- Developed skills in mathematical analysis, statistical physics, algebra, and programming applied to research projects.

Relevant Certifications and Courses

- Microsoft Data Science Certification
- Microsoft Data Analysis Certification
- Microsoft SQL and Azure Certification
- Data-Driven Astronomy Certification by UNAM
- Microsoft Python Certification
- Python and Data Analysis Certification by Santander

Technical Skills

- **Programming Languages**: Python, SQL, C++, JavaScript
- **Libraries**: numpy, pandas, matplotlib, seaborn, TensorFlow, PyTorch, scikit-learn, PySpark
- **Databases**: SQL, MongoDB, Cassandra
- **Data Visualization**: Looker Studio, matplotlib, seaborn
- **Cloud Computing**: AWS, Azure

Publications

- Article on the 2024 Nobel Prize in Physics and its applications in neural networks and real-life scenarios: LinkedIn