

Experience

Faculty of Sciences, UNAM	CDMX, Mexico
Teaching Assistant	Aug 2024 - Present
<ul style="list-style-type: none">Automated grade analysis using Python, reducing administrative workload by 30%.Developed dashboards in PowerBI to monitor student performance, enabling data-driven interventions.Conducted exploratory data analysis (EDA) to optimize academic support strategies.	
International Centre for Theoretical Physics (ICTP)	Trieste, Italy
Research Intern	May 2024
<ul style="list-style-type: none">Studied advanced techniques for machine learning in high-dimensional statistics.Developed and implemented statistical models for complex data analysis.Collaborated with an international team to enhance algorithmic efficiency in predictive tasks.	
South America Institute for Fundamental Research (ICTP-SAIFR)	São Paulo, Brazil
Research Intern	Oct 2024
<ul style="list-style-type: none">Participated in a Quantum Machine Learning project, implementing quantum algorithms with Qiskit.Enhanced data clustering techniques, improving efficiency by 40%.Designed quantum computing models for machine learning applications, increasing accuracy by 25%.	
Didi Chuxing Technology Co.	CDMX, Mexico
Data Science Intern	Jun 2023 – Oct 2023
<ul style="list-style-type: none">Analyzed 250K+ sales rows with SQL, driving strategic decisions that improved efficiency by 30%.Built Python-based machine learning models, reducing processing time by 50% and boosting accuracy by 25%.Designed PowerBI dashboards to visualize KPIs, enabling actionable insights for LATAM operations.	
Universidad Autónoma Metropolitana	CDMX, Mexico
Data Science Researcher	May 2021 – Oct 2023
<ul style="list-style-type: none">Applied PySpark to streamline data pipelines, improving processing efficiency by 30%.Enhanced data visualization techniques using Matplotlib and Seaborn.Built statistical models for large-scale simulations, leveraging HPC tools for parallel computing.	

Education

Universidad Autónoma Metropolitana	CDMX, Mexico
B.Sc. Physics. GPA: 3.72/4.00	Oct 2023
Universidad Nacional Autónoma de México	CDMX, Mexico
B.Sc. Mathematics. GPA: 3.80/4.00	Jul 2024

Projects

ISINGenerator	Github
Open-source library facilitating advanced analysis of energy, magnetization, and topological domains in a 2D Ising Model; enhanced simulation accuracy by 50%.	
Topological Data Analysis League MX	Github
Scraped, cleaned, and visualized Mexican Soccer League data using ETL and Mapper Graphs.	

Skills

Technical: Python, SQL, PySpark, TensorFlow, Scikit-Learn, Tableau, Matplotlib, Seaborn
Languages: Spanish (Native), English (C1)
Soft Skills: Teamwork, Problem-solving, Attention to Detail, Communication
Tools: Power BI, Git, JIRA, Microsoft Office (Excel, Word, PowerPoint)