

Manuel Alejandro Matías Astorga

📍 Mexico city, Mexico
✉ alejandromatiasastorga@gmail.com
☎ 951.310.47.07

🌐 [linkedin.com/in/alexmatiasastorga](https://www.linkedin.com/in/alexmatiasastorga)
🔑 [kaggle.com/alejandromatias](https://www.kaggle.com/alejandromatias)
🐙 github.com/alexmatiasas

DATA SCIENTIST

Data Scientist with 2 of experience in developing, validating, and monitoring machine learning models. Expert in Python, AWS, and creating predictive models, LLMs, and NLP models. Proven ability to uncover insights, trends, and patterns through machine learning algorithms. Strong orientation towards analyzing the model development lifecycle from a business perspective, providing end-to-end data science consulting.

PROFESSIONAL EXPERIENCE

PARTICLE PHYSICS RESEARCHER |CINVESTAV – Physics Department.

2022—Present | CDMX, México.

As part of my research project, I developed new models to obtain particle masses. Furthermore, based on lattice quantum chromodynamics (LQCD), the MIT bag model and Tsallis statistics, I found a new way to obtain pressures inside hadrons.

- I conducted advanced research in particle physics, analyzing large volumes of experimental data to identify patterns and trends.
- I collaborated with multidisciplinary teams to develop and validate theoretical models.
- I presented research results at international conferences and published articles in high-impact scientific journals.

EDUCATION

•PHD IN PHYSICS |CINVESTAV – Physics Department

2019—2024 | Mexico city, Mexico

•APPLIED PHYSICS ENGINEER |Mixteca Technological University – Physics Institute

2013—2019 | Huajuapán de León, Oaxaca, Mexico

SKILLS

• TECHNICAL SKILLS

- **Programming Languages:**
Python, SQL, R.
- **Cloud Platforms:**
AWS
- **Machine Learning Models:**
Predictive models, LLMs, NLP
- **Development Tools:**
TensorFlow, PyTorch, Keras, Scikit-learn
- **Data Visualization:**
Tableau, Power BI
- **Databases:**
SQL.

•SOFT SKILLS

- Analysis of the model development lifecycle from a business perspective
- End-to-end data science consulting
- Development and monitoring of machine learning models on AWS
- Effective communication of technical insights to non-technical audiences
- Collaboration with cross-functional teams
- Proactivity and problem-solving

•LANGUAGES

- **Native**
Spanish
- **Advanced-Intermediate**
English B2
-Listening: Advanced-Intermediate
-Speaking: Advanced-Intermediate
-Reading and Writing: Advanced

HIGHLIGHTED PROJECTS

• DEVELOPMENT OF PREDICTIVE AND NLP MODELS

Made a project for the development and validation of predictive and NLP models, improving accuracy and optimizing operational efficiency.

- **AWS IMPLEMENTATION**

Deployed multiple machine learning models in production environments using AWS, ensuring scalability and robustness.

CERTIFICATIONS

• **THE COMPLETE PYTHON BOOTCAMP FROM ZERO TO HERO IN PYTHON** | [Udemy—Por José tortilla, Pieran Training](#)
2022—2023 | Udemy.

THE COMPLETE SQL BOOTCAMP: GO FROM ZERO TO HERO | [Udemy—Por José tortilla, Pieran Training](#)
2022—2023 | Udemy.

MACHINE LEARNING A-Z: AI, PYTHON AND R | [Udemy—Por Kirill Eremenko, Hadelin Ponteves \(SuperDataScience Team, Ligency Team\)](#)
2023—2024 | Udemy.

ARTIFICIAL INTELLIGENCE A-Z 2024: BUILD 7 AI + LLM | [Udemy—Por Kirill Eremenko, Hadelin Ponteves \(SuperDataScience Team, Ligency Team\)](#)
2023—2024 | Udemy.