Contact

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📍 **Mexico City** 🇲🇽

Language

| Spanish | **Native Speaker** |
| English | |

Skills

Spark

Databricks

Python

Numpy

Pandas

Matplotlib / Seaborn

Scikit-Learn

Tensorflow

SQL

Google Cloud

AWS

Apache Kafka

Git / GitHub

Agile

Interests

RegTech | Ethics | Tech-driven Financial Crime Prevention | Geopolitics | History | Economics | Global Political Economy | Rise of BRICS+ | Post-Western World | China

Jorge Abraham Flores

Data & Machine Learning Engineer (Entry-level)

With technical skills in data engineering and machine learning, I am committed to driving effective business solutions. Equipped with a solid foundation in Python and experience in data manipulation and visualization, I am **able to support the development and deployment of machine learning models**. My goal is to tackle complex data challenges and deliver high-quality, data-driven solutions by collaborating with cross-functional teams. I aspire to develop a career in the **RegTech** and **Compliance (AML)** sectors.

Experience

Data Engineering and Cloud Services

Practical experience processing data with **Spark DataFrames** on the **Databricks Platform** using **PySpark**. Through coursework, I have gained experience implementing **basic Spark Jobs** using simple **Python apps and scripts**. Additionally, I have processed large data sets using **BigQuery** on the **Google Cloud Platform** within Qwiklabs. I have implemented simple automated **CI pipelines** using **AWS**, **GPC**, **Azure** and **GitHub Actions**. Essential knowledge on some of the cloud tools related to **Data Lakes** and **Data Warehouses**, such as **S3**, **Google Cloud Storage**, **BigQuery**, **AWS Glue** and **AWS Athena**.

Certificates:
Apache Spark 3 - PySpark Fundamentals | Udemy
Modernizing Data Lakes and Data Warehouses | Google Cloud
Google Cloud Big Data and Machine Learning Fundamentals | Google Cloud Computing Foundations | Duke University
Cloud Virtualization, Containers and APIs | Duke University

Data Science and Machine Learning Engineering

50+ **Jupyter notebooks**, implementing various **supervised and unsupervised learning algorithms**. Equipped to support the implementation of a wide range of **machine learning algorithms and techniques** such as **Linear Regression**, **Lasso Regression**, **Ridge Regression**, **Elastic Net**, **K-Nearest Neighbors**, **K-Means Clustering**, **Decision Trees**, **Random Forests**, **Support Vector Machines**, **Hierarchical Clustering**, **DBSCAN** and **PCA**. Coursework experience with **Deep Learning** algorithms such as **ANN**, **CNN**, **RNN** and **GAN** doing **Regression** and **Classification** tasks. **Capable of creating ML microservices (Machine Learning in Production)** with **BentoML**, **FastAPI** and **Flask**.

Certificates:
Machine Learning Specialization | Stanford, DeepLearning.AI
Master Python for ML and Data Science | Pierian, Udemy
Tensorflow 2 and Keras Deep Learning | Pierian, Udemy

Education

Universidad Autónoma Metropolitana (2015-2019)

Information Technology. UAM Cuajimalpa is a top mexican university. I gained experience and a solid foundation in **C**, **Data Structures and Algorithms**, and **Object-Oriented Programming** with **Java**. I also made some projects using **HTML**, **CSS**, **PHP**, **JavaScript**, and **Ajax**. Learned **React**, some **Node** and **MongoDB** on my own.

UNAM, Facultad de Ciencias Políticas y Sociales (2008-2011)

Communication and Media Studies. I did some reporting and worked doing media monitoring for PR Newswire Mexico for some years. Through philosophy, language and semiotics lectures I developed a fascination about Philosophy of Mind and Consciousness that continues to this day.