

TOBIÁS CHAVARRÍA

MACHINE LEARNING ENGINEER

CONTACT

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Madrid, Spain

PROFILE SUMMARY

Machine Learning Engineer with expertise in Python, PySpark, and a strong foundation in data science, software development, and DevOps practices. Skilled in designing and deploying end-to-end ML models, building robust ETL pipelines on AWS, and automating workflows for scalability and efficiency. With strong communication and teamwork skills, promoting innovation and excellence.

LINKS

[GitHub](#)

[LinkedIn](#)

[Medium](#)

SKILLS

- Python
- PySpark
- AWS
- Docker
- Azure
- Databricks
- Kubernetes
- DevOps
- SQL
- Git

CERTIFICATIONS

- Kubernetes and Cloud Native Associate
- Microsoft Certified: Azure Data Engineer Associate
- SCRUM Fundamentals Certified (SFC)

LANGUAGES

- Spanish: **Native**
- English: **Fluent**
- French: **Intermediate**

AWARDS

- Third Prize: [International Mathematics Competition for University Students](#), Blagoevgrad, Bulgaria. · 2017
- Bronze Medal: [Olimpiada Iberoamericana de Matemática Universitaria](#) · 2016

EMPLOYMENT HISTORY

Senior Cloud Data Software Engineer

2025 - PRESENT

BASF, Madrid, Spain

- Design, distribute and maintain data distribution strategies using Unity Catalog with Azure Data Factory and Azure Databricks.
- Develop metadata-driven framework for data ingestion.

Machine Learning Engineer

2023 - 2025

BBVA Technology, Madrid, Spain

- Deploy an E2E OCR tool using TexExtract, Azure LLM and AppRunner services.
- Implement a RAG for a Financial Plan creation chatbot.
- Building and optimizing jobs and ETLs using Python, PySpark, and AWS services such as SageMaker, EMR clusters, and S3.
- Ongoing collaboration with data scientists to implement and scale models in production.
- Create Docker images to replicate the CI/CD environment, improving efficiency and consistency in the development workflow.

Data Engineer

2022 - 2023

Adaltas, Paris, France

- Developed an end-to-end architecture with Cloudera Data Platform on AWS, check it [here](#).
- Participated in the [Summit \(Morzine, France\)](#) with a presentation on Vector Databases: Milvus Overview.
- Utilized modern technologies such as Terraform, Ansible, and Vagrant.
- Collaborate on [TDP](#) project.

Data Scientist

2020 - 2022

Banco Nacional de Costa Rica, San José, Costa Rica

- Developed machine learning projects for the bank's risk departments using Python and Matlab.
- Azure: Designed and deployed a parametric model to classify and prioritize ATM failures in R, built expected loss models for the loan portfolio, implementing IFRS 9 standards with EY.

EDUCATION

Applied MSc in Data Science & AI, DSTI School of Engineering, France

Summa Cum Laude

Bachelor of Mathematics, Universidad de Costa Rica, Costa Rica

GPA: 3.7