Daniel **Jiménez M.**

MACHINE LEARNING ENGINEER · DATA SCIENTIST

Colombia

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Summary

Machine Learning Engineer and Data Scientist, passionate about software development (DevOps), programming, and the application of statistical methods to Machine Learning models. Proficient in Python and R, an Edge computing developer for computer vision using Jetson Nano, and an AI programmer. Extensive experience in the development of NLP models, ML Applications, forecasting, and recommendation systems. Strong combination of theoretical, coding, and infrastructure knowledge.

Skills

Python(+7 Years), R(+10 Years), Docker, Pandas, Tensorflow, Pytorch, Numpy, Scikit-Learn, FastAPI, SQL, Bash. Linux, GCP, Azure, Jetson Nano, Raspberry Pi.

Work Experience

Yale University - School of Medicine *New Haven, USA (Remote)*
NLP ENGINEER *May. 2022 - Currently*
- I am in charge of Data Ops development, specifically for all matters related to biographical information of faculty members in the School of Medicine.
- I develop pipelines for the data engineering process, focusing on the information derived from medical records in order to analyze this data.
- As the leader of the NLP team, I am responsible for developing tools that aid the School of Medicine in matters of document assistance.
- I also spearhead research on computational inference for optimizing the MLOps process.

InterAmerican Development Bank *Washington, USA (Remote)*
PRINCIPAL DATA SCIENTIST *Jul. 2020 - Currently*
- I am in charge of developing AI for project evaluation and risk assessment in social development projects in LATAM, under the criteria of political science, macroeconomics, and the current state of each member country.
- I develop recommendation system models for designing public policy proposals aimed at promoting social development in member countries.
- I developed the deployment architecture on AWS for analytics products.

Mercado Libre *Colombia*
MACHINE LEARNING TECH LEAD *Jan. 2021 - Nov. 2021*
- I led a team of data scientists and data engineers in developing Pricing, Forecasting, complementary product information, and user fraud detection products.
- I developed a pricing model for Argentina, Brazil, and Mexico using Bayesian tools and time series analysis to determine the best price for purchasing a car in dynamic auctions, while maintaining the desired profit margin from its sale.
- I also developed an anomaly detection model to identify instances of potential user impersonation.

Chiper *Bogotá, Colombia*
SENIOR DATA SCIENTIST *Jul. 2019 - Jul. 2020*
- I developed the first MLOps architecture on GCP for deploying machine learning products.
- I created demand prediction models for over 200 SKUs.
- I evaluated the most effective way to distribute products, minimizing delivery times and reaching the greatest number of customers.

Secretaría de Educación de Bogotá *Bogotá, Col*
DATA SCIENTIST *Aug. 2019 - Jul. 2019*
- I developed the first sample models based on Bayesian methods to understand the disaggregated behavior of the population in terms of public policies.
- I created Item Response Theory models for designing development strategies for primary education in Mathematics and English.
- I developed the first AI model that wrote reports for each district institution, evaluating and drawing conclusions on the education performance by school and by student.

ONU *Santiago de Chile, Chile*
DATA SCIENTIST *May. 2013 - May. 2014*
- I developed criminal detection models using Data Science and mathematical tools.
- I created dynamic maps to determine the types of crimes that could occur by hour and area.
- I conducted psychometric research to assess the state of individuals who committed crimes in Santiago, Chile.

Projects & Software

GODNILLA - Software
MACHINE LEARNING SCIENTIST

USA

2023

• Natural language processing model for the evaluation of development projects.

BENDER NLP
NLP ENGINEER

USA

2023

• I developed a model that enabled the classification of document sections related to medical texts.

Giulia AI - AI Framework
MACHINE LEARNING SCIENTIST

USA

2020

• I developed a model that read news from across LATAM and assessed the potential for making recommendations in terms of public policy development for countries where the Inter-American Development Bank was working.

Bebe a la fuga
MACHINE LEARNING SCIENTIST

USA

Currently

• I developed an inference-based model using Jetson Nano, where through computer vision, I assessed risks of injuries in babies, such as if they were about to fall off the bed, or if they were playing with something dangerous.

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*

Education

Universidad Santo Tomas
B.S. IN ECONOMICS AND PHILOSOPHY

Colombia

2014

• I focused on Economic History and the philosophy of the absurd.

Universidad Católica de Chile
M.S IN COMPUTER SCIENCE

Chile

Currently

• Master's student in Computer Science with an emphasis on Machine Learning and Edge Computing.

Extracurricular Activity

Independent study
RESEARCHER

2020

• Implementations of MLOps in Edge Computing using NVIDIA cards.

Open Source
RESEARCHER

2022

• Acceleration of XGBoost models with CPU inference.