

# Pablo Badilla Torrealba

Machine Learning Engineer

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## ABOUT

Engineer with 5+ years of experience in development and productization of systems based on Data Science, Machine Learning (ML) and Natural Language Processing (NLP) in various sectors, including retail, banking, software and research. Strong communication and project management skills.

## EXPERIENCE

### WALMART CHILE | SENIOR MACHINE LEARNING ENGINEER

Mayo 2023 – Mayo 2024

- Development and deploy of a call center demand forecasting model.
- Development and deploy of a customer lifetime value model (CLTV).
- Reimplementation and deployment of an MM1/MMS queuing simulation model that ran daily on all supermarket checkouts.

### BCI | DATA SCIENTIST

February 2023 – April 2023

- Development of features based on banking transactions for credit risk assessment models.

### NATIONAL ARTIFICIAL INTELLIGENCE CENTER OF CHILE (CENIA)

MACHINE LEARNING ENGINEER

Enero 2022 – Enero 2023

- Development and deployment of Machine Learning model to incorporate user preferences in Vehicle Routing Problem (VRP).

### KWIYX SPA - FREELANCE | DESARROLLADOR FULL STACK & DATA SCIENTIST

March 2019 – January 2021

- Front-end development of real estate investment app.
- Full-stack development of an application for human resources management in pandemic hospitals based on optimization models.
- Automated topic and argument detection using embeddings generated by Transformers embeddings.
- IOU text detection system with OCR and Regex.

### UNIVERSITY OF CHILE | PART TIME LECTURER

Marzo 2021 – Julio 2023

- Scientific Programming Laboratory for Data Science lecture, for the Master in Data Science.

## PROJECTS

### DASHAI | SOFTWARE ARCHITECT & SENIOR DEVELOPER

- Interactive library to train, evaluate and deploy AI models, currently under development. Link to DashAI in Github.

### WEFE | MAIN DEVELOPER

- Open-source library for bias assesment in Word Embeddings models. Link to WEFE in Github and to Read the Docs.

## TOOLS

### Programming Languages

- Proficient Python
- Intermediate JavaScript

### Data Science

- Numpy • Pandas • SQL • BigQuery
- Spark • JupyterLab/Databricks • Plotly
- NLTK

### Machine Learning

- Scikit-learn • XGBoost • LightGBM
- Pytorch • HuggingFace

### Tools and platforms

- GCP / Vertex AI • Git • Github Actions
- Docker • Kubeflow • Kedro • Sphinx
- FastAPI • ChatGPT, Gemini, Copilot.

### Methodologies and best practices

- MLOps • CI/CD • Pull Requests & Code Review • Code documentation, testing, linting & formatting • Kanban & Scrum

## EDUCATION

### MASTER'S DEGREE IN COMPUTER SCIENCE

UNIVERSITY OF CHILE

2019-2020

### BACHELOR OF COMPUTER SCIENCE

UNIVERSITY OF CHILE

2013-2019

## LANGUAGES

- Spanish - Native speaker
- English (B2 TOEFL-ITP)

## ACHIEVEMENTS

- Bachelor's and Master's degree graduate with highest distinction.
- #93 Top GitHub Users By Public Contributions in Chile
- Academic Advisor in University of Chile.
- 2 times outstanding student in University of Chile.