

Santiago, Chile

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Work Experience _

Vendie COFOUNDER Oct. 2023 - Today

• Vendie is an AI end-to-end e-commerce solution through WhatsApp.

• LLM framework with support for OpenAI, AWS Bedrock, GCP Vertex and Anthropic APIs.

European Southern Observatory - Paranal Observatory

Paranal, Chile

MACHINE LEARNING ENGINEER (GRADUATE INTERNSHIP) - SOFTWARE GROUP

Aug. 2023 - Jan. 2024

- · Engineered a RESTful API to streamline access to diverse data sources in the observatory, including Jira tickets and software version control logs, fostering enhanced accessibility and integration of user information across various platforms.
- Devised and implemented a reporting tool application using Streamlit Python's library, featuring customizable summarization levels tailored to user perspectives through utilizing Large Language Models (LLMs).
- Spearheaded prototyping initiatives utilizing vector databases focusing on OpenSearch and the Retrieval Augmented Generation (RAG) pattern.

Contributed to developing projects showcasing applications such as similarity search, chatbots, and Q&A apps.

Santiago, Chile

MANAGER PAYOPS AND ANALYTICS

Oct. 2020 - May. 2021

- Oversight of the complete payment process for merchants, leading a team of four analysts to ensure a seamless end-to-end payment workflow.
- · Create and lead the analytics teams to provide data and insights to different company areas and the management team, facilitating informed decision-making for the business. Push forward initiatives to train people and evangelize the company using scripting languages like Python and R for analytics and developing a data products mindset.

PARSSIGNED READ PERSON AND A COMMENTAL PROCESSES WITHIN THE PAYOPS and Analytics area in the company's early stage. 2019 - Oct. 2020

- · Led the Payops and RiskFraud team in processing payments for over 50k merchants nationwide, focusing on minimizing fraud and preventing service misuse in the card payment network.
- Developed various data products, including reports and dashboards, utilizing code to automate data extraction, preprocessing, and presenta-
- · Implemented the risk and fraud process, creating features based on transaction details like transaction amount, deviation from average tickets Central Bank of Engle and transaction frequency. Developed an outlier detection model to calculate a transaction score.

ECONOMIC FINANCIAL ANALYST - MACROECONOMIC STATISTIC DIVISION

Santiago, Chile Oct 2016 - Oct 2019

2022 - 2024

- · Responsible for deploying and maintaining the statistical data process to elaborate the local fixed-income quarterly publications. Includes processing multiple data sources using technologies such as SQL, Python, and R. Translating from granular data to macro-financial concepts consistently with other macroeconomic statistics.
- · Write technical reports, publish statistics, and make periodic presentations to stakeholders about local fixed-income markets' economic and financial scenarios.
- Implement and publish the Handbook of Securities Statistics for Chile, one of the nine Special Data Dissemination Standards (SDDS plus) items, the most advanced standard for economic-financial statistics dissemination worldwide. More information here.

Research & Teaching Experience

RESEARCH

Universidad de Chile, Research Assistant: Diffusion Models Santiago, Chile 2022 **SegPlantFormer**, https://github.com/alcazar90/plant-segmentation Santiago, Chile

TEACHING EXPERIENCE

2023 Universidad de Chile, MDS7203: Deep Generative Models (Teaching Assistant - Syllabus design) Santiago, Chile Women in Data - Guatemala Chapter (NPO), Data Visualization with Python 2021 Webinar - Remote https://github.com/alcazar90/WomenInData-Guatemala2021 Universidad de Chile, El3001-2: Data Journalism with Python (Part-time Professor) 2019 Santiago, Chile Ministry of Social Development and Family, A five-session Data Visualization Workshop using R (Instructor 2019 Santiago, Chile - Syllabus design) Universidad de Chile, ECP7-1: Data Analysis with R Programming (Part-time Professor) 2018 Santiago, Chile

Education

MSC IN DATA SCIENCE

Universidad de Chile Santiago, Chile

· Thesis: Extending Reinforcement Learning Techniques for Diffusion Models, supervised by Felipe Tobar

- Hugging Face Student Ambassador: I volunteer to organize talks and events in my local community.

CRISTÓBAL ALCÁZAR · CURRICULUM VITAE SEPTEMBER 26, 2024

2009 - 2015

Skills

ProgrammingPython scientific stack (numpy, pandas, scipy, matplotlib), PyTorch, JAX, open-source ML ecosystem (HuggingFace, W&B), R

(tidyverse, ggplot2), SQL

Languages Spanish (native), English

EDX Intro to Computer Science and Programming Using Python, Intro to Computational Thinking and Data Science, Artificial

Intelligence (CSMM.101.x), Machine Learning (CSMM.102.x), Robotics (CSMM.103.x)

Intro to Machine Learning in Production, Machine Learning, "Graph Search, Shortest Paths, and Data Structures", "Divide and

Conquer, Sorting and Searching, and Randomized Algorithms", The Data Scientist's Toolbox, R Programming, Getting and Cleaning Data, Exploratory Data Analysis, Reproducible Research, Statistical Inference, Regression Models, Managing Big Data with MySQL

Writing_

Coursera

A Deep Learning Workflow Part 1, Hugging Face datasets + Weight & Biases

W&B Fully Connected

AUTHOR Feb. 2023

• tl;dr Colabs are powerful, but they make experimentation difficult. In this article, we explore how to change your workflow with HuggingFace

Digital literacy, computational thinking, and literate programming

Lom Ediciones

AUTHOR Oct. 2019

• A chapter published in the book "Inteligencia Artificial y Bienestar de las juventudes en America Latina" (Brossi, 2019) that reviews and reflects on ideas such as computational thinking and literate programming, particularly highlighting the importance of establishing programming as an elementary skill in Latin America.