

Bruno Stefoni

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Professional Summary

Experience in Deep Learning, NLP, Data Science, and storytelling. Creating data pipelines, designing metrics, delivering predictive models, and performing hypothesis tests to present insights and participate in data-driven business decisions.

EDUCATION

NEW YORK UNIVERSITY

New York City

Master of Science in Data Science (GPA: 3.8/4.0)

Sep 2021 – May 2023

- Relevant coursework: **Deep Learning, Machine Learning, Big Data**, Optimization and Lineal Algebra.
- **TA of Data Science** Bootcamp Class at NYU Business school during two semesters.
- **Student Representative** for the entire Master's Program, meeting faculty and communicating student issues.

UNIVERSIDAD DE CHILE

Santiago, Chile

Master in Engineering Sciences (Final grade 6.6/7.0)

Jan 2016 – Aug 2018

- **TA of five different courses**, e.g., Stochastic Processes, Network Optimization, Networks and Circulation.
- Graduated with highest distinction.

Engineering Degree (Final grade 7.0/7.0)

Mar 2010 – Dec 2015

- **Graduated in the top 10%** of my class cohort. Granted **Outstanding Student award** in 2010.
- Key Modules: **Computer Science I and II, Probability, Statistics, Optimization, Operations Research, Data Mining**

PROJECTS AND PUBLICATIONS

- Capstone Project with **S&P Global**: News classification by fine tuning **Large Language Models from unlabeled data**.
- **Published two papers** based on my Master's in Engineering thesis related to computer simulation: **GScholar link**.
- Deep Learning Competition: next frame video prediction using a **Transformer and CNN (Resnet)** in a JEPA network.
- Text analysis of large academic thesis corpus using **LDA** and GloVe word embeddings.
- Twitter sentiment and classification analysis using fastText, LGBM, and **fine tuning BERT**.
- Won Hackathon competition. Led an interdisciplinary group of 6. Designed and developed an app for transit users.

EXPERIENCE

❖ Sortile

Manhattan, New York

Sorting infrastructure with NIR spectroscopy and machine learning to efficiently identify fibers

Jun 2023 – Aug 2023

Data Scientist

- Developed color model from light wavelength sensor data to automatically classify fiber colors in sorting facilities.
- Benchmarked XGBoost and Deep Learning models for multiclassification task. Deployed models on AWS Lambda.

❖ Google

Mountain View, California

Internship in Platforms & Ecosystems

Jun 2022 – Aug 2022

Data Scientist

- Developed clear understanding of App Developers, conducted a detailed market research and graph analysis by building a network dataset from diverse data sources using PLX, **Google BigQuery, Python and R data pipeline**.
- **Detected up to 15% of user churn** by continuous survival and time series analysis of Software adoption rate data.
- Presented results to several internal stakeholders and management. Proposed a new methodology for analysts.

❖ STP Santiago

Santiago, Chile

STP is a transit company in Chile's capital operating 980 buses, 250 of which are electric.

May 2018 – May 2022

Data Scientist

- **Built and implemented a company-wide chat bot** in Linux private server to support management and on-site workers to obtain real-time updates on fleet status and manage electric charging stations efficiently.
- Drove STP's revenue and established strong KPIs by identifying routes with a difference of up to 25% between planned and real bus speeds, **automating A/B tests** in data and generating custom alerts.
- Prevented \$500K investment on tech less accurate than traditional methods by **launching a statistical study**.
- Refined core business cost estimates by **building a machine learning model for battery and fuel consumption**.
- **Detected data outliers** due to faulty batteries in 20% of STP's electric buses **via quantitative analysis** in a **SQL and Python data pipeline**, alerting the fleet provider contractor.
- Spearheaded automation of data ingestion, processing, and calculations of **six different KPIs** that played a key part in the revenue stream from concession's contract.
- Increased 6% the main contract KPI by scraping twitter data to alert service disruptions using **text processing**.
- Optimized drivers' work shift **scheduling using a machine learning** model with employee attendance data.

❖ Telefonica R&D and Universidad de Chile

Santiago, Chile

Research project with Telefonica, one of the largest telecom companies in Latin America.

Nov 2017 – May 2018

Data Scientist

- Designed a new public transit route service for forecasted utilization by 60K people weekly by utilizing Machine Learning and **large cell phone datasets**.
- Created framework of extraction and **visualization tools from spatial data** by leveraging Python and R from 9M+ spatial data points and street network data.

SKILLS

- Advanced Python for Data Analysis, ML and Deep Learning:
 - Pandas, NumPy | PyTorch, PyTorch-Lightning | XGBoost, LGBM, scikit-learn | Plotly, Seaborn, Matplotlib
 - NLTK, SpaCy, fastText, GloVe | Transformers, Hugging Face | LangChain, openAI API
- SQL | R | MATLAB | QGIS | C++ | Java | Bash | Git
- Linux | WandB | Docker | Snowflake, Dask, pySpark, Hadoop | BeautifulSoup, Selenium, requests
- AWS (S3, EC2, Lambda, Sagemaker) | Microsoft Office Suite (Excel, PowerBI)
- Native Spanish speaker; fluent in English; intermediate Italian.