MUSA EZEQUIEL A.

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EXECUTIVE SUMMARY

A **semi-senior data scientist** with 5 years of experience in Software Development and 3 years of experience in developing machine learning models. A proactive professional who specializes in data forensics, gathering, exploration and processing for machine learning modeling.

FUNCTIONAL EXPERTISE

- **Machine Learning Model Development.**
- **Dataset Preprocessing and Cleaning.**
- **Data Forensics and Exploration.**
- **Python Development.**
- **SQL Querying.**
- **Frontend Development.**

FUNCTIONAL EXPERTISE DEMONSTRATED

MERCADOLIBRE S.R.L.

2021 – NOW

An e-commerce and online marketplaces company with more than 30.000 employees, it's the biggest e-commerce site of Latin America.

Data Science Engineer (Semi Senior) (Aug. 2021 - Now)

Performs data analysis and exploration to develop complex machine learning models and heuristics to prevent fraud in a wide range of money flows.

- **ML Model Development:** Designs and trains machine learning (ML) models for different money flows using Tensorflow, SQL and Python to generate predictions and stop fraudulent transactions. E.g. Successfully developed at least 15 machine learning models since 2022 from start to finish, including design, feature selection, train, test, deployment and monitoring, for money flows with up to 5 million transactions per week in the biggest countries of operation (Brazil, Argentina, Mexico), lowering fraud rates and improving business metrics.
- **Data Exploration:** Diagnoses and analyzes data to identify new patterns of fraud or generate new features to improve model performance using libraries like Numpy, Pandas and Seaborn. Utilizes BigQuery SQL to manipulate data. E.g. Investigated a new pattern for fraud in funding flows that were causing big reputational damage to the company. Assembled heuristic rules and Machine Learning models leading to the product to normalize.
- **Python Development:** Develops and Redesigns the Machine Learning pipeline, written in Python, used by the team to improve the models' time to market and reduce errors. E.g. Overhauled several steps of the fraud department modeling pipeline, applying best practices, normalizing and automatizing sections of it and updating documentation.

Data Science Analyst (June 2021 - Aug. 2022)

Helps in the creation of heuristics and simple machine learning models to stop credit card fraud.

- **Heuristics Development:** Performs data analysis and forensics to create strong rules and simple Machine Learning models that prevent credit card fraud. E.g. created 5 models and several rules to stop credit card fraud transactions in Chile, Mexico and Uruguay.
- **Feature Exploration and Development:** Generates new features by analyzing data from the Business Intelligence team, verifying usefulness and feasibility, and coding them for the models to use. E.g. Created 5 new features for QR transactions by checking behavior of the device and credit card used to pay.

[SOVOS](#)

2019– 2021

A software provider for tax compliance and Business to Government reporting. With offices in more than 14 countries and customers that operate in more than 70 countries.

Software Engineer II

Develops software solutions for tax information reporting (front-office), both front and backend side.

- **Frontend Development:** Creates and maintains the views of the tax reporting software using React and Javascript, Improving the user experience. E.g. Developed several new views and improved others from the tax information reporting software, adding new forms to fill and improving loading speeds. Also participated in a big migration of the entire product from an older version of React to a newer version.
- **Backend Development:** Develops and maintains the code of the database and the back-end logic using SQL Developer and C#. E.g. Created logic for new forms to report in the tax information reporting software, adding new code, parsers, and tests.

Software Engineer I

Develops software for internal use of the company (back-office).

- **Frontend Development:** Maintains the views of several software for internal use, using React. E.g. Improved monitors that check the state of tests for several applications in the company.
- **Automated Testing Development:** Creates automated tests for use in different products using different test drivers like Selenium and Robot Framework. E.g. Created automated tests for 3 different products, from simple functional tests to complete flows.

[Cátedra de Informática, Programación I y II - FACET UNT](#)

2023-NOW

Facultad de Ciencias Exactas e Ingeniería - Universidad Nacional de Tucumán

Teaching Assistant - Cátedra de Lógica Discreta, Bases de Datos e Inteligencia Artificial

Develops practical classes, assists students of the 3 subjects, corrects mid term exams and practical work.

2018– 2021
Facultad de Ciencias Exactas e Ingenieria - Universidad Nacional de Tucumán
Student Helper - Cátedra de Informática, Programación 1 y Programación 2
Assists students of the 3 subjects, corrects some practical work, gives some theoretical classes.

RELEVANT PROJECTS
Facial Verification Using Neural Networks in Embedded Systems (2020): Participated in the creation of a Facial Verification system using a Raspberry PI and Convolutional Neural Networks as the final project to receive my Engineer degree using technologies as Keras, OpenCV, Numpy and Pandas.

EDUCATION
Computer Engineer (Software, Hardware and Networking). UNT (Tucumán, Argentina)

Additional Professional Development:
- Applied Machine Learning in Python (ELKAYB9EAC2U) – Coursera (2022)
- Applied Plotting, Charting & Data Representation in Python (S4Q9QSDVDBMW) - Coursera (2021)
- Convolutional Neural Networks (R2VX295E3H2Q) - Coursera (2020)
- Structuring Machine Learning Projects (6APQ3QJJ6FQ2) – Coursera (2018)
- Machine Learning (97363CF8LG3Y) - Coursera (2017)

HONORS & AWARDS
- Student Representative (2019-2020): Student Representative of the Computer Engineering career in the Academic Commission FACET UNT.

OTHER RELEVANT INFORMATION
Languages: Spanish (Native Fluency), English (B2)
Technology: Python, SQL, Javascript, Java, GCP, AWS, Slack, Jira, Javascript, React.