

Juan Pablo Treviño Lozano

Computer Science and Technology Engineer

Data Science, Data Analysis, Machine Learning Engineering, Data Engineering

+52 8121486543

juanptl2000@gmail.com

www.linkedin.com/in/juanptl/

Education

Tecnológico de Monterrey (ITESM) 2019 – 2023

B.S. in Computer Science and Technology

Cum Laude

Concordia University - Autumn Program, 2022

Exchange program in Montreal, Canada.

Studies in Machine Learning, Pattern Recognition & Information Retrieval.

Work Experience

Accenture | Data Eng, Mgmt & Governance Analyst, January 2024 – Current

Banca Afirme | Credit BI Engineer Jr., September 2023 – January 2024

- **Automation of processes:** *Reduction of process execution time from 2 days to 2 minutes by automation.* Design and creation of a framework to systematically execute, maintain and add automated processes in a simple and organized manner. In addition, automation of one of the monthly processes using the framework.

ITESM | Attraction Services Intern, February 2022 – June 2023

- **CRM Systems Migration:** *Prevention of marketing process disruption due to CRM license expiration issues within a 6-month deadline, enabling a reduction of approximately 50% in monthly CRM license costs.*

Administration and content transfer between HubSpot and Marketing Cloud, following marketing team standards, and research into the HubSpot API for email automation.

- **Connection between PowerApps and Jira:** *Facilitation of monitoring and streamlining of marketing teams' processes, increasing, and accelerating the completion of over 100 monthly tasks.*

The project enabled displaying requests, automatically sent to the team from PowerApps, as tasks on Kanban boards in Jira. Management of databases from both systems, research on the Jira API, and design and development of flows in Power Automate to send requests to Jira.

Notable Projects

- **Cemex – CEMEX Guesstimator:** *Improvement in time and resource estimation for development team tasks through a Deep Learning model, reducing estimation error by 40%.*

Development and deployment of a Deep Learning model for Natural Language Processing (NLP) in user stories to predict task effort based on their corresponding user stories and assist in the calculation of the time and resources required for their completion.

- **Quanti Solutions – Process Audit:** *Identification of two breaches and four opportunities for continuous improvement in the processes of cybersecurity incidents management to achieve ISO 27001 certification.*

Conduction of an audit on Quanti Solutions' processes to verify their compliance with controls 5.24, 5.25, and 5.26 specified in the ISO 27001 standard, delivering and presenting executive reports with the results.

- **Medical Savior - Invoice structuring:** *95% reduction in time for analyzing thousands of invoices to generate reports for decision-making and company's tax compliance.*

Automated structuring of data contained in company's SAT XML invoice files, stored in Google cloud services, transforming them into a relational database format for the analysis team's use.

- **Praedium – Digital Praedium:** *Delivery of a project plan to initiate the digital transformation of the company with the goal of enhancing internal processes and increasing competitiveness in the market.*

Project planning: scope and objectives definition, stakeholder identification, work plan, resource estimation, and risk identification and management. Creation of a Software Requirements Specification (SRS) document and design of architecture, database, and components.

Certificates

Machine Learning (Stanford Online), Data Engineering (IBM), Deep Learning Specialization (DeepLearning.AI)

Languages

Spanish - Native

English - Advanced

Italian - Advanced

French - Intermediate

Software tools and computer science knowledge

• **Programming languages:** Python, R, C++, Java, JavaScript

• Database and software systems architecture design

• Data structures and advanced algorithms

• Data Warehouses, Data Marts & Data Lakes

• **Data wrangling:** NumPy, Pandas, SciPy

• Knowledge and experience in software development

• **Machine Learning & Deep Learning Libraries:** Tensorflow, PyTorch, scikit-learn

• **Cloud experience:** Microsoft Azure - Devops, SQL Database IBM Cloud - DB2, Cognos Analytics, IBM Analytics Engine

• **Databases:** SQL, NoSQL

• **RDBMS:** MySQL, PostgreSQL

• Data pipelines, ETL & ELT

• Web crawling & scraping

• **Data Visualization:** Tableau, PowerBI, Matplotlib, Seaborn

• Machine Learning & Deep Learning – Practical and theoretical knowledge

• Microsoft Office, Excel, Sharepoint

• API development and use

• **Big Data:** Spark (PySpark), SAS

Extracurricular and Leadership Activities

• Academic Excellence Mentor at my campus for 3 years, providing support to students in their academic performance.

• “Líder con Sentido Humano” program to assist in the charitable project from the nonprofit institution TEDI for one semester.

• Summer mathematics teacher for high school students during the COVID-19 pandemic in the "Aprendamos Juntos" project.

