Juan Pablo Treviño Lozano
Student in Computer Science and Technology Engineering

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Education

ITESM Monterrey Campus	**Concordia University**
August 2019 – June 2023	August 2022 – December 2022
GPA: 98/100	Exchange program in Montreal, Canada.

Work Experience

ITESM

Attraction Services Intern, Feb 2022 – Present

- Migration between Salesforce and HubSpot systems.
- Research about HubSpot's API functions for email automatization.
- Connection between SharePoint and Jira systems for task creation in a Kanban board.
- Black box testing on forms.

Relevant Projects

- **CEMEX Guesstimator:** Project with CEMEX to improve their tasks' time management by natural language processing of user stories. A Deep Learning model was created to predict the effort of the tasks, described by their respective user stories.
- **Concordia's Information Retrieval:** Sentiment analysis of web pages from Concordia University's domain, retrieved by web scraping, to then be clustered based on their content.
- **PotAI:** Different Machine Learning models to predict the potability of water samples from Indian rivers.
- **Dropout Effect:** Experimentation on the effects of dropout in overfitting models of 7 datasets. The results were analyzed, and a report was written based on it.
- **HydroFlow:** System to monitor own water consumption by the means of flow detecting sensors. The consumption data was stored in a on-premises SQL database and displayed to each user on their own dashboard in a web page. The Project had the purpose of contributing to the Sustainable Development Goal 6 from the UN.

Certificates

Machine Learning (Stanford Online), Data Engineering (IBM), Machine Learning, Data Science and Deep Learning with Python

Languages

Spanish - Native   **English** - Advanced   **Italian** - Advanced   **French** - Intermediate   **Korean** - Basic

Programming Languages

- Python
- R
- Java
- C++

Data Science & Engineering

- Knowledge in data structures and advanced algorithms.
- **Data Visualization:** Tableau, PowerBI, Matplotlib, Seaborn
- Machine Learning & Deep Learning – Practical and theorical knowledge
- **Machine Learning & Deep Learning Libraries:** Tensorflow, PyTorch, scikit-learn
- Design diagrams for databases and software systems architecture

- Data Warehouses, Data Marts & Data Lakes
- **Data wrangling:** numpy, pandas, scipy
- **RDBMS:** MySQL, PostgreSQL

- Data pipelines, ETL & ELT
- Web crawling & scraping
- **NoSQL:** MongoDB, Cassandra

- **Big Data:** Spark (PySpark)
- API Development

Cloud Platforms

Microsoft Azure: Devops, SQL Database   **IBM Cloud:** DB2, Cognos Analytics, Cloudant, IBM Watson, IBM Analytics Engine

Extracurricular and Leadership Activities

- Academic Mentor of Excellence in my campus for 3 years to support students with their classes.
- *Líder con Sentido Humano* program to assist in the solidarity project from the non-profit institution TEDI. (October 2021)
- Mathematics teacher for high school students in the project *Aprendamos Juntos.* This was done to combat the impact of the pandemic on education. (Summer 2021)
- Assisted to rock climbing classes and singing workshops, performing in public recitals.

Soft skills

- Learning capacity and willingness
- Teamwork
- Problem Solving
- Adaptability
- Multiculturality
- Organization