Valeria Pineda Romero

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EDUCATION

Master of Science in Engineering

Tecnológico de Monterrey
2020-2022

B.S. in Industrial and Systems Engineering

Tecnológico de Monterrey
2016-2020

LANGUAGES

Spanish | English

SITES

 https://github.com/ValeriaPineda23

 https://www.kaggle.com/valeriapineda

 https://www.researchgate.net/profile/Valeria-Pineda-Romero

 https://www.linkedin.com/in/valeria-pineda-romero/

WORK EXPERIENCE

Teaching Assistant

Tecnológico de Monterrey · August 2021 - December 2021

- **Regression Analysis:** Developed basic data science activities on "Multiple Linear Regression Analysis" in Jupyter Notebook.
- **Data Visualization:** Designed Dashboard activities in ArcGIS platform.

Physical Logistics Intern

BMW Group · February 2020 - June 2020

- **Continual improvement process:** Supervised three service suppliers and implemented cost-saving initiatives to address long-standing operational problems.
- **Data Visualization:** Generated four daily status and three weekly reports detailing logistic operations and problems regarding logistics KPIs.

Floor Walker

BMW Group · January 2019 - June 2019

- **Time Series Analysis:** Reduced time delay of supply to line process, by approximately 50%, through time series analysis and monitoring warehouse operations.
- **Exploratory Data Analysis (EDA):** Supported Supply Chain processes such as material flow, supply to line, warehouse management, and IT issues performing EDA of the company's operational datasets in SAP STARD ERP.

RELEVANT COURSE WORK

Data Science; Multiple Linear Regression; Machine Learning; Data Analytics; SQL for Data Science; Data Science: R; Intelligent Systems; Computing Fundamentals; Statistics I; Statistics II; Optimization Models; Design and Analysis of Experiments; Statistics Engineering; Decision-Making Models

SKILLS

Technical

- **Machine Learning:** Classification; Regression; Clustering; Time Series Analysis; Feature Engineering; Data visualization; Exploratory Data Analysis.
- **Statistics:** Regression; Confidence Intervals; Hypothesis Testing; Outliers Analysis; Goodness of Fit Test; Descriptive Statistics; Fisherian, and Bayesian methods.

Coding

- Python (Scikit-learn, Pandas, Numpy, Matplotlib), R (tidyr, dyplr, ggplot, caret, pracma), MATLAB, SQL, Latex.

PROJECTS

- **Time Series Analysis:** Developed an Auto-Regressive model that predicts National Workplace mobility in Mexico throughout November 2020.
- **Time Series Clustering:** Developed a clustering analysis to group Mexican States in terms of Workplace mobility during COVID-19.
- **Classification Analysis:** Built a machine learning classifier to automate the loan eligibility process of a home loan company, with an accuracy score of 92.02%.
- **Classification Analysis:** Built a machine learning classification model capable of predicting the score for an online class by analyzing the students' daily habits with an accuracy score of 89.54%.
- **Regression Analysis:** Improved a mediation model from Mukuka et al. (2021) by developing a regression model with a determination coefficient of 84.8%.