

# Valeria Pineda Romero

Mexico

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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, dplyr, 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%.