

# IVÁN VELÁZQUEZ

Mexico City

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GitHub: <https://github.com/velazquez-Ivan96>

Portfolio: <https://velazquez-ivan96.github.io/velazquez-96.github.io/>

Data Analyst and Sustainable Development Engineer with skills in handling and analyzing data with Python, Excel, VBA and SQL from *Tecnológico de Monterrey* Data Analytics and Visualization certification. Passionate about analyzing large sets of data from different fields to generate useful insights and help to make better decisions in organizations to the creation of shared value.

## TECHNICAL SKILLS

**Languages:** Python, SQL, JavaScript, HTML/CSS, R

**Data Manipulation & Visualization:** pandas, matplotlib, plotly.js, D3.js, Leaflet.js, Tableau, spark

**Machine Learning:** scikit-learn

**Database:** PostgreSQL, MongoDB

**Other:** Flask, Git, command line

## PROJECTS

**Real Estate App** | <https://cutt.ly/Zf0HrYh> | [homepare.com.mx](http://homepare.com.mx)

- Web application that scraped data from all available houses, departments, and duplex from all Mexico
- Three different ways of presenting data: dashboard, interactive map, and interactive table.
- Summary statistics, web scraping, visualizations, and webpage created using Python(BeautifulSoup), HTML/CSS, Bootstrap, AWS Database, Flask, Plotly.js, Leaflet.js, and PostgreSQL

**Global Pollution** | <https://github.com/velazquez-Ivan96/Global-Pollution-Project>

- Analyzed the exposure to air pollutants and death rate due to air pollution
- Pulled data from OCDE API and used data from Our World in Data to assemble dataset.
- Summary statistics and visualizations created using python(plotly, pandas, seaborn, matplotlib) and Google API for map visualization.

**Climate analysis app** | <https://cutt.ly/RfNoyBR>

- Analyzed climate conditions such as precipitation, temperature, rainfall and stations.
- Designed a Flask API with routes based on the initial analysis.
- Summary statistics, visualizations, Flask API created using Python, Pandas and SQLAlchemy.

## EDUCATION

**Professional Certificate - Data Analytics and Visualization**

***Tecnológico de Monterrey, Mexico City***

An intensive program focused on acquiring technical skills for data analysis and visualization such as Excel, VBA, R, Python (SciPy, Numpy, Pandas Matplotlib, Seaborn, BeautifulSoup, SQLAlchemy, Flask, Scikit-learn, PySpark), interactions with API, PostgreSQL, MySQL, MongoDB, ETL, HTML/CSS, Bootstrap, Javascript (D3, Plotly, Leaflet), and Tableau.

**Sustainable Development Engineering**  
***Tecnológico de Monterrey, Mexico City***

Bachelor degree focused on the efficient use of energy and resources, use of waste and design of corporate sustainability strategies. Special focus on electrical energy.

**EXPERIENCE**

**Grupo Modelo**  
**12/2018**

**8/2018 –**

**Project developer**  
**City**

**Mexico**

- Investigated the physical and chemical properties of beer bagasse to return it to its value chain
- Prepared a business case for *Grupo Modelo* to take advantage of beer bagasse as a complement in papermaking.