DataCo SMART SUPPLY CHAIN

UofT Data Analytics Bootcamp
Team 8

Summary

Since Supply Chain disruptions have a negative impact on a global production and positive impact on inflation; for this reason our project will consist on determine whether a delivery will be late and the impact that has on the shipments.

Presentation Sections

- Data Exploration & Preliminary Analysis
- Database
- Machine Learning
- Dashboard

Team Members

- MONJARAS Audrey
- NEWMAN Brent
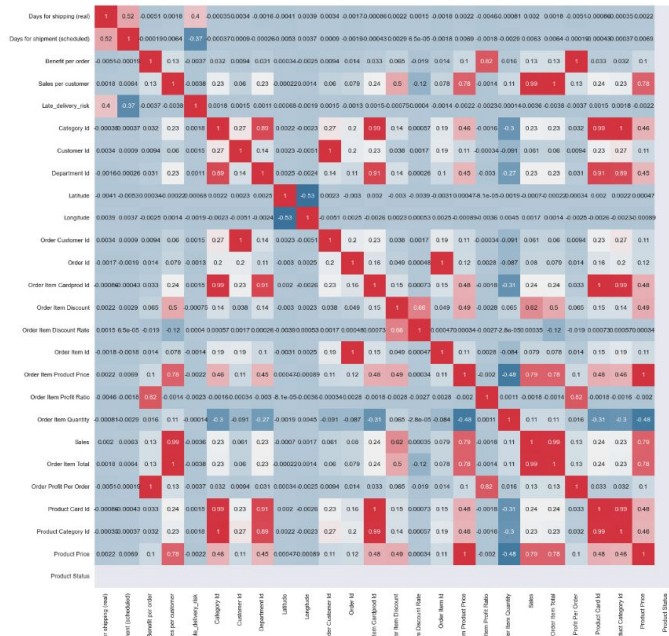- VIRDI Anureet
- WILLIAMS Brandon-Scott

Technologies & Tools

- Technologies: AWS, PostgreSQL, Tableau
- Languages: Python (Pandas, Numpy, Matplotlib, Seaborn, Geopandas)
- Tools: Jupyter Notebook, GitHub, Google Colab
- Algorithms: Imbalanced Learn RoS
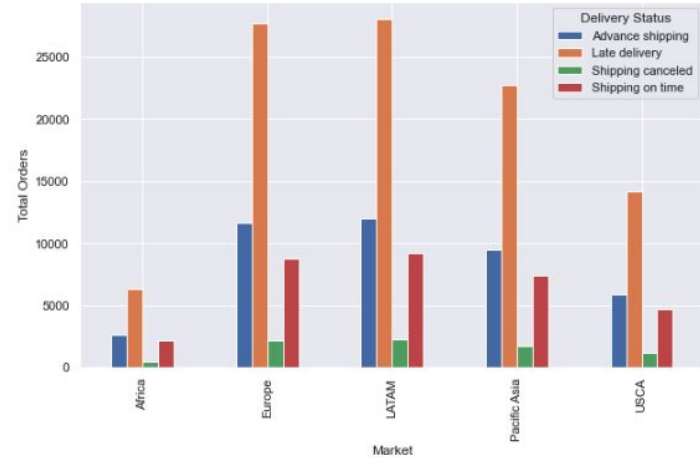
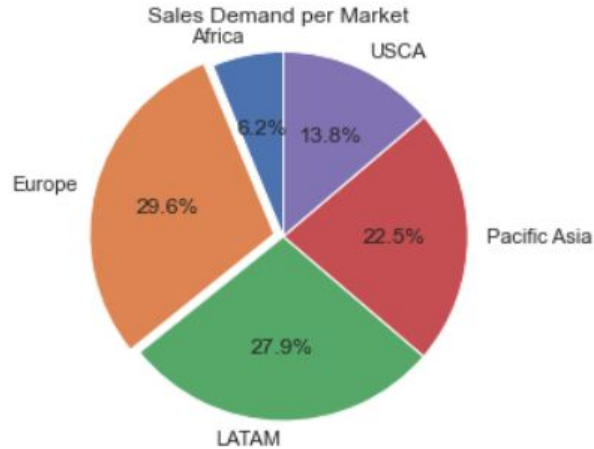# Data Exploration & Preliminary Analysis

Preliminary Analysis

Correlation matrix allowed us to discard redundant data

Preliminary Analysis

Sales Demand per Market

Europe, LATAM and Pacific Asia are the three main markets on Sales Demand and with significant late deliveries. Major contributors could be High Volume of shipments and Customs

Database

Database Process