GT-Coding-Boot-Camp
GT-VIRT-ATL-DATA-PT-09-2021-U-C-C

- Team: The Derek Zoolander Center for Machines Who Can't Read Good and Wanna Learn to Do Other Stuff Good Too
    - David Dam
    - Louis Cheng
    - Jae Park
    - Norman Adkins
- Project Title
    - Forecasting because machines get learnt real good!!!
- Project Description
    - Create a forecasting model to project future demand by SKU and customer for the next 2 years to account for 600+ day production lead times and 90 day transit times of the current supply chain for use in monthly inventory planning.
- Research Questions to Answer
    - Determining the number of units of each SKU needs to go into production planning to cover demand over the next 2 years to account for long lead times. (Build a good story to showcase the real-time industry dataset, current Covid situation, sales trends, etc.)
- Data Sets to be used
    - Historical sales data to be provided by David
    - Product data provided by David
- Tools
    - Python Pandas
    - PostgreSQL
    - Tableau
    - Python Matplotlib * (may or may not be used)
- Rough Break Down of Tasks
    - Gather data
    - Clean data set
    - Organize/group data
    - Analyze data/ make predictions.
    - Group historical sales data by material and sale date.
    - Explore forecasting/statistical models (Facebook Prophet, etc.)
    - Apply forecasting models across each material.
    - Combine forecasted quantities for each material to create a suggested order quantity for each month.
    - Present our analytics using Tableau.
    - Host the analytics on a platform of choosing
    - Preparing the slide deck and presentation
    - Possible graduation