Exploratory Data Analysis Retail ~ GRIP

d1= given data set in .csv file

d2= data set sorted by the 'negative' profit column

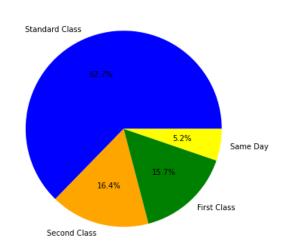
b1= top 20 values, sorted by sales

A) Steps~

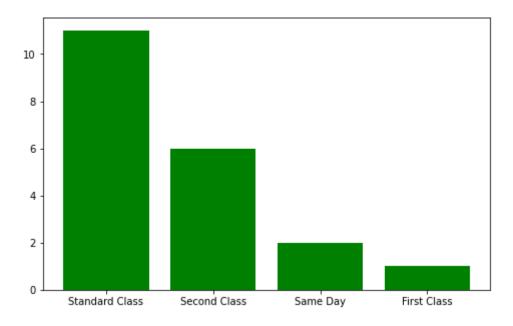
- CSV read through *pandas* library
- Analysing the dataset from scratch
- 9994 total records
- 1871 records with negative profit
- 4 different shipping modes namely, Standard Class, First Class, Second Class, Same
 Day
- 13 columns

B) Weak Areas & Business Problems~

- Profit lies between -6599 to -0.09
- Percentages for different Ship Modes:
- a) Standard Class~ 62.7%
- b) Second Class~ 16.4%
- c) First Class~ 15.7%
- **d) Same Day~** 5.2%

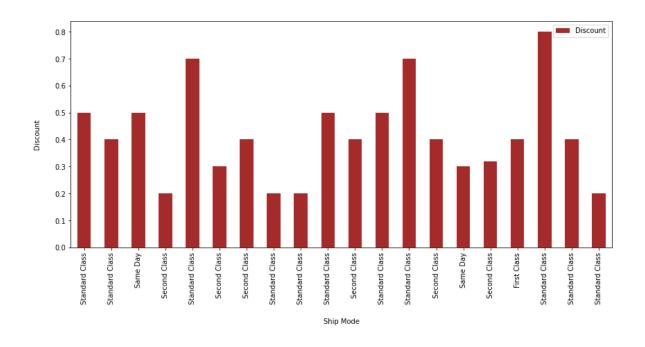


Percentage of Ship Modes used



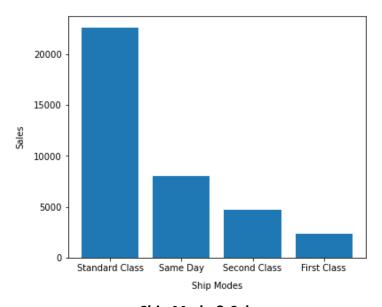
Ship Modes & their count (Top 20 values)

- Heavy discount between 20% to 80% when the Ship Mode is
 "Standard Class" for top 20 values.
- Maximum loss is of -6599 for Standard Class while looking at overall data with 70% discount.



Ship Modes and Discount

- Minimum loss is of -25.05 for Standard Class while analysing top 20 records with 20% discount.
- Maximum profit is of 8399.98 for Standard Class while looking at complete dataset with 0% discount.
- Maximum sales is of 22638.48 when the Ship Mode is Standard
 Class, in overall dataset.



Ship Mode & Sales

- Minimum sales is of 2003.92 for Standard Class in top 20 values.
- Minimum sales is of 0.44 for Standard Class in overall records.
- Maximum Loss is of -6599 in Standard Class



Solutions:

• Discount needs to be reduced below 20% for "Standard Class" so that profit can be maximized.