



Machine Learning

Weekly Project Report

Quantcats

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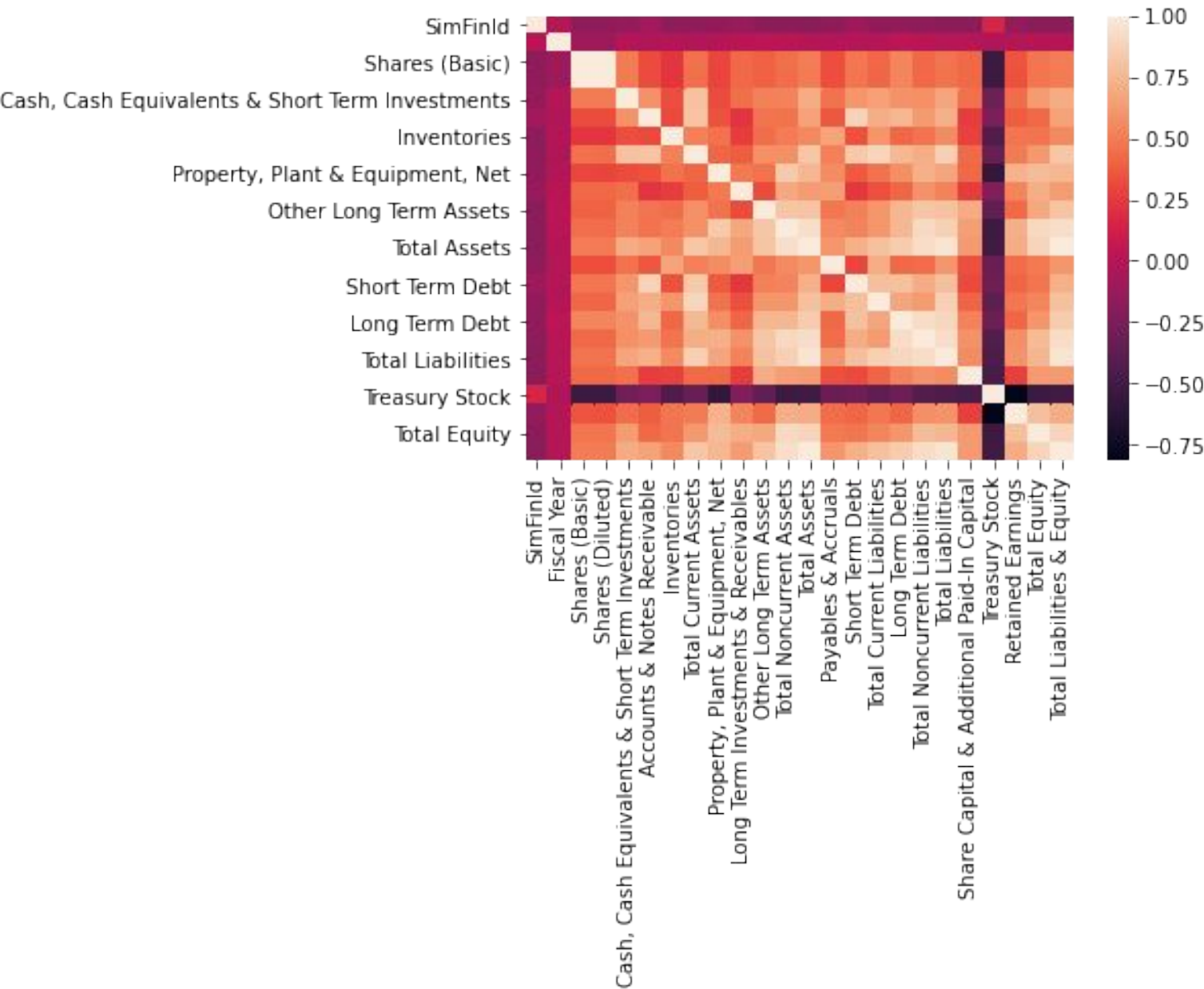
Vrunda Gadesha AU2049007

Tasks Performed: Week 2

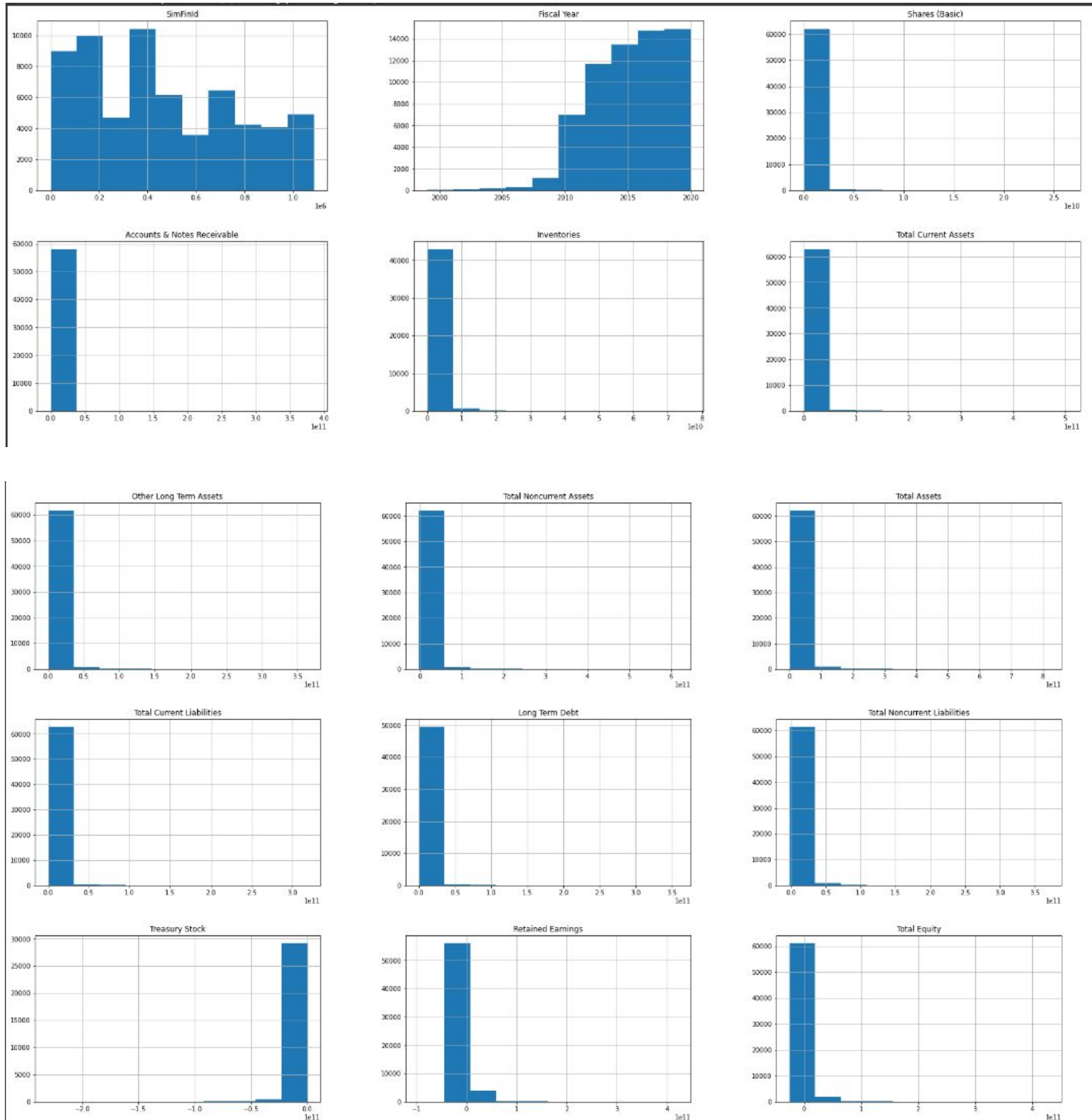
- 01** After finalizing the topic, Stock Classifier, we finalised the dataset - [link](#).
- 02** Initial data analysis with the dataset
- 03** Tried to perform basic exploratory dataset analysis by doing the following:
 - Load data, create data table, number of fields(30), correlation
 - Total number of data points: 63,547
 - Plotted heatmap of correlation using seaborn
 - Plotted Histogram for all columns to see how data is distributed for different fields



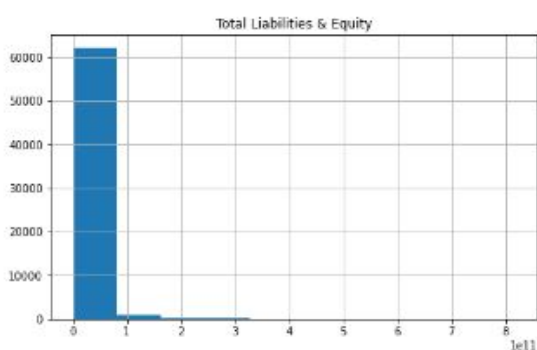
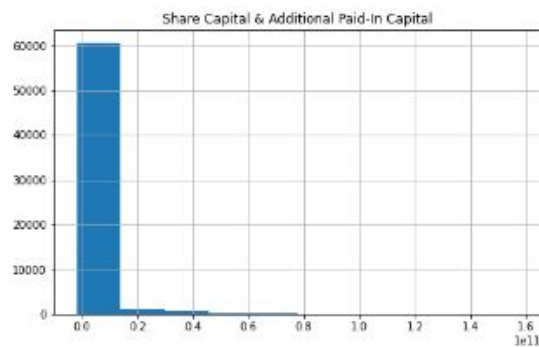
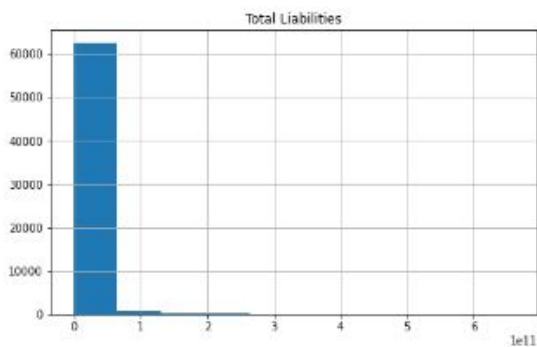
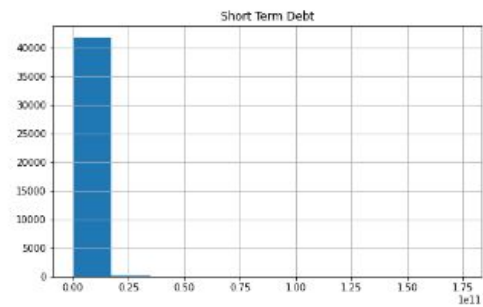
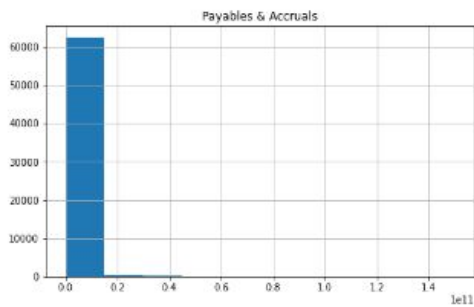
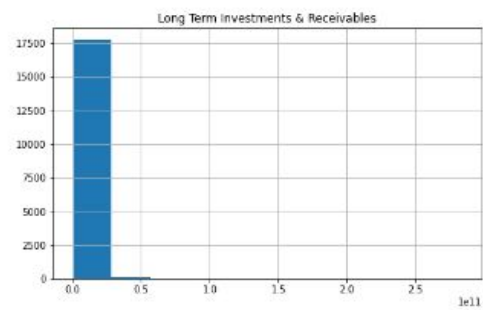
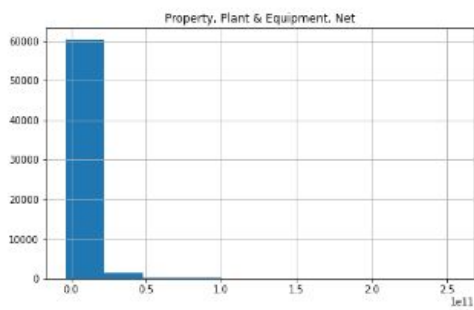
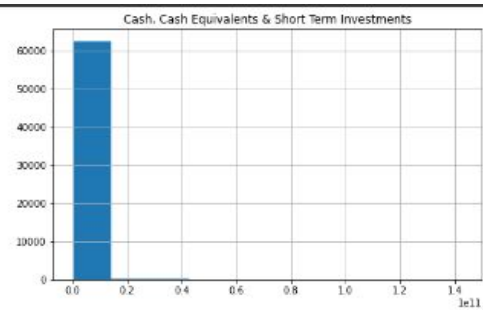
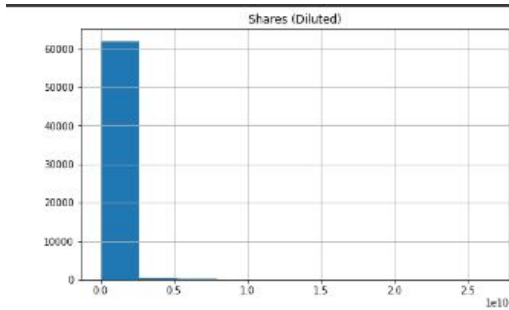
Tasks Performed: Week 2



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Outcomes

Issues discussed:

Dataset Manipulation, Increasing Features with High Impact

- We can probably use other datasets from <https://simfin.com/data/bulk>
- We can even combine technical indicators from daily price datasets.

Labelling the Dataset

- Labelling the data based on stock prices on fundamental results declaration date and price on the date from 3 months of results declaration date.

Requires us to write a script that takes the date from the Declare Date row of our primary data set (<https://simfin.com/data/bulk>)(select dataset: Balance Sheet Quarterly) and fetches price for that date and three months ahead from US daily share prices from (<https://simfin.com/data/bulk>)(select dataset: Share Prices) for that particular Ticker.

If future price greatest than X% label BUY, if price less than X% SELL, if price between X & -X% HOLD/ Do Nothing.

Upcoming Week

- 01** Writing script for data labelling
- 02** Performing other advanced exploratory data set analysis methods
- 03** Testing the created dataset on fairly simple multilabel classification models such as Logistic Regression, LDA, & Random Forests(Decision Trees),

