UDACITY

Return to Classroom

DISCUSS ON STUDENT HUB

Analyze NYSE Data

REVIEW

HISTORY

Meets Specifications

Greetings Student,
Brilliant job for this submission. The effort demonstrated in this work is exceptional! Congratulations on a successful completion of this project with this submission👏! You have mastered the spreadsheet commands needed to conduct business analysis, build an Income Statement and a financial forecast model using scenarios. Please carry on with the good work and have a nice day!🏆

Submission Phase

A PDF report have been uploaded as part of a zipped folder.

Nice job uploading all the files necessary for review in a single zipped file. A PDF report has been uploaded as part of a zipped folder.

Student provided an Excel file as part of a zipped folder or link to Google Sheet (in case the student used Google Sheets instead of Excel) necessary for review. This file should include their Profit and Loss statement and forecasts. The Google link should be included in the PDF or slides document.

The spreadsheet (Excel or Google Sheets) should contain individual tabs for the dataset, calculation of the summary statistics, dashboard for Profit and Loss statement, and Forecasting model with scenarios. There can be additional tabs in the Workbook that are needed for the dashboard and forecasting model.

Well done! Your excel spreadsheet contains all the necessary information for the Profit and Loss statement and Forecasting model with scenarios within specific worksheet tabs along with the calculations of the summary statistics.

Exploration of Summary Statistics

Student uses the measures of center and spread and at least one numeric summary statistic to generate insights.

Stating the summary statistics is insufficient. Please include in the written description a short insight related to each one.

For example here is an insight based on mean:
The mean total revenue for companies categorized under Pharmaceutical industry ($26,325,440,909.09) was higher compared to mean total revenue for all healthcare industries ($23,142,217,458.76). It looks like companies in the Pharmaceutical industry have a higher total revenue on average than all industries categorized under Health Care.

Nice work using mean in generating a nice and meaningful insight about the data! This helps the readers understand more about the data being analyzed.

Pro Tip

Please check the link below for ideas on how to interpret these values:

- Data Analysis: Descriptive Statistics

Student uses standard deviation and range to generate insights.

Stating the standard deviation and range is insufficient. Please include in the written description a short insight related to each one.

For example, please review the finished slide example in the classroom, which can be found in the Analyze NYSE S&P 500 dataset project lesson (Finished Example Slide).

Great work using standard deviation in generating an insight about variability. This is definitely correct!

Pro Tips

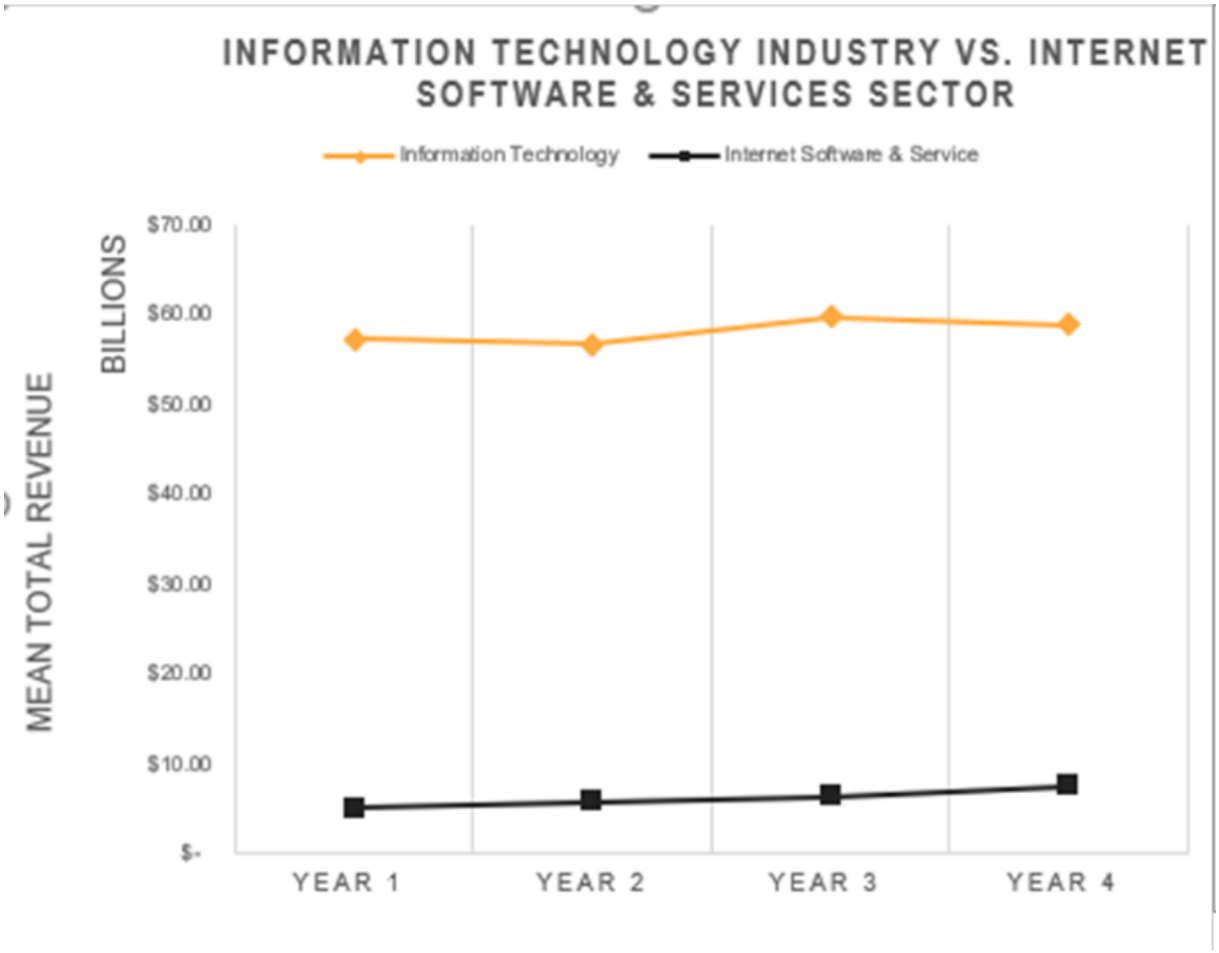
- The standard deviation measures how concentrated the data are around the mean; the more concentrated, the smaller the standard deviation. Basically, a small standard deviation means that the values in a statistical data set are close to the mean of the data set, on average, and a large standard deviation means that the values in the data set are farther away from the mean, on average.
- Range should suggest how diversely spread out the values are, and by computing the difference between the maximum and minimum values, we can get an estimate of the spread of the data.
- HOW TO INTERPRET STANDARD DEVIATION IN A STATISTICAL DATA SET

- How to Interpret Standard Deviation in a Statistical Data Set
- Range in Statistics - The Difference Between the Maximum and Minimum

Student uses at least one plot to explore the data. The plots may include histograms, box-plots, scatterplots, and bar charts to explore data and gain insights.

All slides must contain a visualization. Screenshots of values in a table does not count.

Nice work using at least one plot to explore the data as required.



Pro Tips

Please check 25 Tips to Instantly Improve Your Data Visualization Design on how to effectively visualize data.

An appropriate visual is chosen to present the data. All labels are legible and the visual has appropriate axis labels.

Every visualization should have

- **chart title (including which year's data the chart depicts)**
- **x axis title**
- **x axis labels**
- **y axis title**
- **y axis labels**

Please refer to the finished slide example page in the classroom for an example.

Awesome! The visualization looks great. It has all the required labels (chart title, axes titles and labels where appropriate) which makes it clear and easy to interpret.

Pro Tips

- Data Visualization : How to Choose the Right Chart or Graph for Your Data
- 44 Types of Graphs and Charts and how to choose the one for your data

Communication Phase

The results of the analysis are presented such that any limitations are clear. The analysis does not state or imply that one change causes another based solely on a correlation.

The results do not imply facts about a larger group of individuals based on descriptive values. Language is only applied to the specific data provided, unless a correct analysis beyond the course material is conducted that allows for inference.

The results of the analysis are presented such that any limitations are clear. The analysis does not state or imply that one change causes another based solely on a correlation. Great!

Pro Tips

This is a link to an article which goes into more detail regarding correlation and causation.

The analysis associated with answering a particular question uses the appropriate variables, summary statistics, and plots that could provide an answer.

Awesome! The appropriate variables and plot have been used in the analysis. In addition, the summary statistics provide an answer to the question posed.

Business Metrics

Student has input the correct formula for each business metric in the income statement and forecast model. Student has built a forecast model for any company of choice. A dropdown for a company in the forecast model is NOT required.

Good job utilizing the right formula in computing each business metric in the income statement and forecast model.

The student provides appropriate assumptions based on gross margin, revenue growth and operating margin for the financial model scenarios.

Your assumptions for each scenario were appropriate given the historical metrics and statistics (such as the revenue growth rate, gross margin and operating margin). Based on the scenario, the assumptions changed to reflect the correct assumptions.

Excel Functions and Modeling

Student demonstrates using VLOOKUP or INDEX and MATCH statements. The student can use the appropriate functions such as OFFSET and MATCH to create forecast scenarios.

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RETURN TO PATH

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