

◀ [Return to "Business Analytics Nanodegree" in the classroom](#)

Analyze NYSE Data

REVIEW

HISTORY

Meets Specifications

Dear student,

I really enjoyed reviewing your work. Your project is really professional and shows that you have invested time and effort in its development.

Keep writing high-quality projects!

Submission Phase



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

Great! You have uploaded all the files necessary for the review. A PDF report has been uploaded as part of a single zipped folder file.



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.

You provided an Excel spreadsheet with all the requirements included. Perfect!

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.

Good work with the average and median calculations and with the insights generated from the results. That's fine!



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).

You included the standard deviation and range calculations as measures of spread, it's very good. And you also worked out a brief insight into the standard deviation for the two companies.



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.

Your presentation includes two bar charts representing a comparison of total revenues between two Telecommunication Services companies. It was a good choice!



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.

Your visualization fulfills all the required specifications as well as being very easy to comprehend.

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.

Your presentation of the results was clear and direct, without including causes or unfounded statements other than the data under study. Well done!



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

You have answered the question raised using the appropriate variables, summary statistics and graphs needed to display the data. It's the right approach!

Business Metrics



Student has input the correct formula for each business metric in the income statement and forecast model.

You used very well the business metrics in the P&L statement and Forecast Model as mentioned in the previous review. Perfect!



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

Good job! You have provided appropriate assumptions based on gross margin, revenue growth and operating margin for the financial model scenarios, and has also demonstrated a good understanding of forecast assumptions, based on historical values.

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.

You have correctly used the INDEX, MATCH and OFFSET functions to create your P&L dashboard and forecast scenarios. Really Good!

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