**Good morning class!**

For Final Project, Sashi and I choose to focus in Stocks.

* In this presentation we are going to talk about:

1. What stock we decide to go with and why
2. Our project purpose and work approach
3. A glint on code used
4. Data Analysis, Transformation and Linear Regression
5. Candlestick Graphic Analysis
6. And conclusion
7. After that we are open for questions.

Let’s start, I hope it would be entertaining and knowledgeable.

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First, we choose Tesla as the Stock Company.

Why? Basically because:

1. Tesla shares have outperformed in the past 10 year, besides of course company’s profits.
2. And the company will split its stock for the first-time next the Aug 28.
3. Then, we thought it could be an opportunity to whom, who want to enter in the world of stock market.

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After we choose the target stock, we decide that the Project Purpose will:

1. Analyze Tesla Stock
2. and create a model using Machine Learning Linear Regression to predicted next day price.

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Then, we applied the Technologies needed to read and format data as:

1. Python and their libraries, like: Pandas, Matplotlib, and on.
2. And Tableau as a visual outlook to the project.

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The Approach started:

1. Web scrapping news about Tesla, to generate sentiment scores for text, and get sentimental analysis about the company. This approach was abandoned, because the lack of time and data volume for analysis.
2. Then, we decided go with Historical data from Yahoo Finance – from 2015 to present and find correlations in the data to fit our model.
3. After fit the model, we considered the confidence of results, and incorporate Candlestick Analysis as a support for prediction.

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Here is a snippet of the code used in sentimental analysis and historical data.

Before start the Analysis, this data was cleaned and formatted.

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Now I will handle the presentation to Sashi, who will guide us to Data Analysis and Machine Learning Algorithms.

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**Candlestick Graphic**

* This type of chart is used as a trading tool to visualize and analyze the stock price.
* Candlesticks represent a certain period of time, and when put together will starting determining market direction and trends.
* Based on the structure levels of support and resistance, we can see that Tesla stocks are performing up.
* For more details about reading a Candlestick Graphic, we encourage google research.
* Creating rules with Candlestick Graphic is another good form to predicted stock trends, but never will be 100% accurately, because stock market price is highly unpredictable and volatile.

**Thank you!**