* What is the problem you want to solve?

Capstone Idea 3 – Stock Price prediction using Linear Regression

Google’s Stock Price prediction using Linear Regression.

* Who is your client, and why do they care about this problem? In other words, what will your client do or decide based on your analysis that they wouldn't have done otherwise?

The targeted audience can be anyone who sells/purchase Google’s stocks. The action of selling/acquiring new stocks can be based on this prediction.

* What data are you using? How will you acquire the data?

We will be predicting the future price of Google’s stock using simple linear regression. The data that we will be using is real data obtained from [Google Finance](https://www.google.com/finance/historical?cid=304466804484872&startdate=Feb+1%2C+2016&enddate=Feb+28%2C+2016&num=30) saved to a CSV file,

* Briefly outline how you'll solve this problem.

We will use the linear regression model. Using the set of points to find the coefficient *a* and the constant *b* such that *y=ax + b*.

In our implementation, x is the independent/explanatory variable, and y is the dependent

variable, as its value is dependent on x. We’ll implement simple linear regression

using Python to understand the real life application of the method.

* What are your deliverables? Typically, this includes code, a paper, or a slide deck.

Deliverables will include – i) Code (via GitHub) ii) Document