README file for Udacity Machine Learning Engineering Capstone Project

# Overview

~ This Capstone (Qualifying Google Trends Search Terms Volumes (STV) as a significant contributor to incorporate in financial trading strategies) researches if leveraging Google Trends offers financial advantages over index market pricing efficiencies.

# Dependencies

* Nature publishes Quantify Trading Behavior in Financial Markets Using Google Trends ~ <https://www.nature.com/articles/srep01684>
* Search Terms and Volumes from Google Trends: https://trends.google.com/trends/explore?date=all&geo=US&q=dow%20jones
* Stock Index news from Yahoo Finance ~ https://finance.yahoo.com/quote/%5EDJI?p=^DJI
* Siral Raval’s How to Predict Stock Prices Easily Video: <https://www.youtube.com/watch?v=ftMq5ps503w>
* Siral Raval’s How to Predict Stock Prices Easily Code: https://github.com/llSourcell/How-to-Predict-Stock-Prices-Easily-Code

# Files

* DJIA\_DATA\_20.B.cvs: Google Search Terms, Volumes, Index Closing Prices and Volumes
* Sp500.csv ~ Siral Raval’s data
* Lstm.py ~ Siral Raval’s code
* Stockdemo.ipynb ~ Siral Raval’s notebook

# Software environs and versions

ipython v 2.7

tensorflow v 1.3.0

keras 2.0.9

# Credits

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