

**A stock analysis and prediction using Python**

**University College Dublin, Ireland**

**The Michael Smurfit Graduate Business School**

**Master of Science in Business Analytics**

**Module: Programming Analytics (MIS41110)**

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**User Manual**

1. **Introduction**

A stock is the small chunk of ownership in the company. The stock price of the company reflects the net evaluation of the company and also give a little insight into its performance. These stock prices going up and down is an iterative process and repeated. So to understand the risk associate with it there must be a proper analysis of stock before buying it. This program gives an analysis of stock market and its prediction, it can be run from an interactive Python 3.6 session. We recommend installing the Anaconda Python 3.6 distribution.

1. **Libraries Used**

The following are the libraries required to be installed beforehand which can easily be downloaded with the help of the pip function. A brief description of the library’s name and its application is provided below.

* Yahoo Finance- To download the stock data
* Pandas- To handle data frames in Python
* Numpy- Numerical Python
* Matplotlib- Plotting graphs

1. **Getting Started**

Once the required packages have been installed, get started exploring a stock by running an interactive python session in folder Stockanalysis.py.