CSI 4142: PROJECT PLAN

GROUP NO.

#43

GROUP NAMES

Cole Stevens, Emiliano Bustamante, William Beaupre

TEAM LEAD NAME

Cole Stevens

TEAM LEAD TEAM'S ID/EMAIL ADDRESS

300171413 | cstev018@uottawa.ca

PROJECT TITLE

Analyzing Financial Sector Trends with Yahoo Finance

DATASET WITH REFERENCE

Yahoo! Finance. (finance.yahoo.com)

PROJECT DESCRIPTION

Yahoo! Finance is a powerful source of financial information, including but not limited to stocks, bonds, currencies, and cryptocurrencies. Multiple APIs have been created to extract and analyze data from the site, such as *yfinance* [1]. For this endeavour, publicly traded company data within various sectors will be examined. These sectors include, but are not limited to, Healthcare, Technology, Financial Services, and more. This information will be extracted, analyzed, and compared with the other sectors to gain more of an understanding of the relative stability, volatility, and profitability of each sector. The conclusions that will eventually be drawn will offer valuable insights that will aid decision-making, trend-analysis, and market understanding.

MOTIVATION

There exists a wealth of data that relates to financial information online, which allows for a multitude of analyses to be performed. This venture provides an opportunity to apply data science techniques learned in CSI 4142 to identify patterns and trends, which is precisely what OLAP seeks to assist with. Furthermore, since the financial sector uses principles from Computer Science very frequently in their own professional context, gaining more insight into this sector could prove beneficial during one's own career.

REFERENCES

[1] Bland, G. (2020, November 3). Yfinance Library - A Complete Guide. AlgoTrading101.
https://algotrading101.com/learn/yfinance-guide/