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Class : CIS 3120

Instructor : Prof. Jairam

Project 2

It is a quite challenging project that I have done so far in the CIS 3120 class, however I would say that I successfully finished it. In this class project, I scraped the S&P500 company list data from Wikipedia including their symbol, name, founded date, headquarters, and etc. After scraping the company’s data , I create an API request automation program that help to make multiple API requests to the Yahoo Finance API. There were a lot of data that can be obtained through their API; however, I choose the stock summary section just because I am more familiar with it. In the stock summary section, there are more than 30 types of data available, and I solely choose 5 of it ( Stock Price, Average daily volume for 3-month, earnings Quarter 1 2021,full time employees) . By analyzing the data in the combined S&P 500 data frame, it could help the financial professional, investor, banker, and consultant taking their decision. Knowing how much earning and trade volume of certain companies is important for them, they could manage their portfolios better than before. Having a good portfolio means that they will generate more return on investment. Last but not least, In the future project, we could also include the day-to-day stock price, target price, volume trading, and company revenue to make a financial prediction on how the stock prices behaving. Implementing machine learning to analyze on how the economy is impacting S&P 500 companies also possible and many things can be leveraged from this small projects. I would say that I truly learn a lot from this class.







