Airline Stocks During COVID-19 Lockdowns

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1. Dataset Description

Format: csv

Description of Dataset: For our dataset, we are just going to be looking at the NYSE Arca Global Airline Index (AXGAL). We want to see if we can build a classifier that can look at the daily performance of the AXGAL and see if that represents a day from the COVID-19 pandemic lockdowns or not.

Description of Attributes: For our attributes, we are going to be looking at the AXGAL open, close, market cap, buy/sell ratings from investment agencies, daily movement, along with other financial values.

2. Implementation/Technical Merit

Anticipated Challenges

Obviously, there are several other variables that can affect the movement of markets. Wars, elections, etc. We need to figure out a way that makes the movement of the airline industry during covid look unique compared to other global events for our classifier to work. To do this, we may need to introduce new attributes that look at more specific airline numbers outside of the market but still relevant to the industry. Like the number of flights that day, volume of passengers, etc.

Attribute Handling

There are a lot of potential attributes for us to use, and we do not want our dataset to get too cluttered. For that reason, we may need to look at different variations of attributes in our dataset that give us the most accurate classifier. We need to figure out which attributes are the most reliable indicators of the market being during a time of the covid pandemic, and which ones are not reliable. If we cannot figure this out, we may need to introduce other stock industries like hotels, yachts, etc.

3. Potential Impact Results

Result Usefulness and Stakeholders

The main stakeholders would be investors and publicly-owned companies. With the worldwide population growing everyday while everything gets more interconnected, the chances of another pandemic coming gets larger as well. This classifier could give people involved in the market a better look at what numbers to expect during another pandemic, what their losses might look like, and how long something like it can last for.