Project 3- Star Techies Status Report

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Class 1-

Found a topic in Finance (Interest rates) In class 1 group time we made our github, made sure everyone had access and also created our individual branches. We picked our topic in finance and decided to do: Interest Rates.

We each picked a topic that correlated with our main topic of Interest and divided up the work load depending on the topics we selected such as:

Credit Card Debt: William
Vehicle Loans: Jalaine
Federal Funds Effective Rates: Mario
Inflation, Interest and unemployment: Lisa

Road Blockers for class 1- Finding data that is not too clean.

Class 2-

Case Study- Questions and Answer

Healthcare AI Bias

What did the algorithm do?

Defining the patiences with high risk conditions; the variable used to identity these patiences is by taking their previous spent in medicine and proxy.

What information did the algorithm use to make its predictions?

The variable used to identify these patiences is by taking their previous spent in medication/ healthcare spent.

What information did the researchers use to determine that the algorithm was biased?

The researchers pulled 50,00 people to do a survey and realized black and white patiences that spent the same amount of money, the AI still did not qualify black patience for the high risk patience because of time and location restraints with reduced access.

What was the impact of the algorithmic bias?

The impact of the algorithmic bias causes black people to not trust the system in health care or their doctors when they are not black. The impact of algorithmic bias could cause black people to refrain from going to get medical attention. It could lead to natural healing alternatives. The lack of trust in patient and doctor relationships may cause black people to not want to go to the doctors.

What were the primary causes of the bias?

The lack of diverse data is one of the primary causes of the bias. "Race and income are correlated: People of color are more likely to have lower incomes.

How might you address the issues that the researchers found?

The algorithm was only taking one variable to identify their high risk patience. We need to come up with more fair ways to identify the data and put forth a more unbiased AI system in place that will be more accurate. Because humans are naturally biased, having a diverse group when deciding which variables to take in consideration will be most effective. Also monitor periodically that the data is being unbias and effective.

Class 2- We analyzed the case study together and discussed the questions. When we started to work on the project we decided to take a look at everyones data to make sure we had enough data to clean and it was correlating to the main topic of the group. We also made such our branches were created and started to upload the data into our github branches.

Road blockers for class 2- Understanding the project requirements when it comes to different library to be used as a group. Also deciding what program we will be each using to clean up the data.

Class 3-
Our goal for class 3 was to finally start coding for our project. We now had more clarification on what exactly we needed and the requirements. Therefore we decided to only work on two data sets rather than 4 to make it easier to merge. We will be doing Interest, inflation, Unemployment rates during different terms of presidency.
Now that we found a correlation between the two data sets we are ready to start cleaning it together. We also decided the library that we have not covered in class that we will be using is Polar in jupyter notebook.