Second Capstone Project Proposals

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1.   My first project idea is to use sentiment analysis to analyze death row inmates last statements. I then want to cross reference that with demographic information and the types of crimes he/she committed. I want to see if there's a connection between the sentiment in their final statement (regret, anger, etc) and the crime committed, as well as other factors like age and location. I also want to get a basic analysis of the contents of these final statements. Do most inmates show regret? How often do they mention their families or their crimes? This sort of information could be useful for psychological studies. I have a dataset from the FBI containing all the last statements and another containing the inmate information. I'm hoping to wrangle this into a useable dataset. I will also use End of It's Rope, a death sentencing database, to possibly get more information about the criminals. Links:

http://www.tdcj.state.tx.us/death_row/dr_executed_offenders.html

http://endofitsrope.com/using-the-database/

2.   I found an API that contains a large amount of data about the TV show Rick and Morty. I thought I could try and analyze some of the crazy names and locations/plots to see if there's any discernable pattern. As this is a show known for its creativity, I thought this might be an interesting pop culture experiment. I could see if the characters or locations get darker throughout the series, or if some words start appearing more frequently. I could also see if there's a pattern to what characters get killed (more humans or aliens)

Link: https://rickandmortyapi.com/documentation

3.   The last idea I has was to do a textual analysis of executive orders given since 1994. I thought I could also use some machine learning, to see if I could make the machine predict

whether the president that gave the executive order was a democrat or a republican. This would provide some insight as to what types of executive orders each party tends to give, and we could examine whether any patterns in the language used exist (either as time goes on, or for each party). This would be a look into the composite of all executive orders, and could hopefully provide some insight as to how executive orders are created, and whether orders given by one president or party differ significantly from the other.

Link:

https://www.federalregister.gov/presidential-documents/executive-orders