**What is the problem you are attempting to solve?**

* I will be attempting to predict the number of livestock or meat products being exported worldwide from USA during the next 5 years.
* Given recent events such as the fires in the Amazon and more demand on land cultivation as well as African swine fever that spread across Europe, we want to explore factors that contributed to these events.
* Investigate the livestock data exported from USA to the world from 1990 to present

**How is your solution valuable?**

* My solution is valuable for consumers, policy makers, government, environmentalists. Those groups of people will be able to anticipate future demands and supplies of livestock and meat products. This will guide them to make better decisions on land usage, meat consumption and impact to climate change.

**What is your data source and how will you access it?**

* For the last 2 years I myself am trying to learn more about the climate change crisis and the relationship between agriculture and global warming. Recently, I started a blog to share my knowledge on the topic with others because I think it is important for people to be informed in order to take positive action. I would like to explore the data and see what the trend of the meat exports from the USA is - is the meat exporting industry in the USA growing? Let’s dig into the data and see!
* I obtained my dataset from data.gov which is a website of the U.S. Government’s data for public use.

**What techniques from the course do you anticipate using?**

* I will employ machine learning NLP techniques to classify each commodity description to a more simplified commodity.
* I will use ARIMA modelling to model the number of livestock and meat products exported from the USA and project it further out.
* I will use neural network technique to model the amount livestock and meat products exported from the USA and project it further out.

**What do you anticipate to be the biggest challenge you’ll face?**

* When dealing with big data and complexity of the dataset that includes a lot of countries and a complex commodity description, I would need to employ different methods and techniques to aggregate the data
* Feature selection would be a challenge as the dataset only has the amount and the year as a measurement factor.