Global Food Production Analysis

Kaila Kay
Flatiron Data Science Capstone Project

AGENDA

01

Overview & Topic Analysis
Why is this an important topic and what impact does it have?

02

Data Analysis
Going over the data set to determine the scope of the problem.

03

Future Work
How I intend to continue working on this project.

04

Wrap Up
Final work and recognitions

29.9%

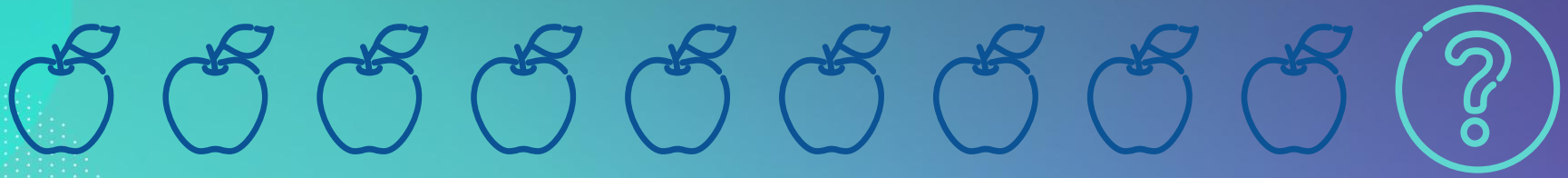
of the United States live close to or below the poverty line

More than DOUBLE the population of the entire State of California

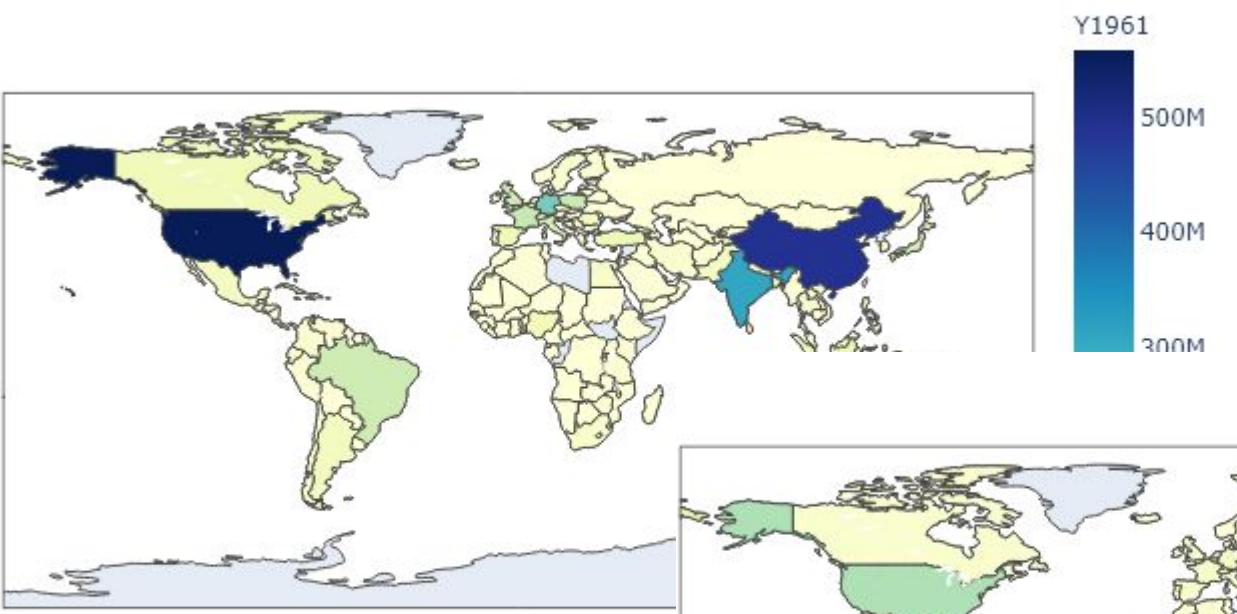
https://www.povertyusa.org/facts

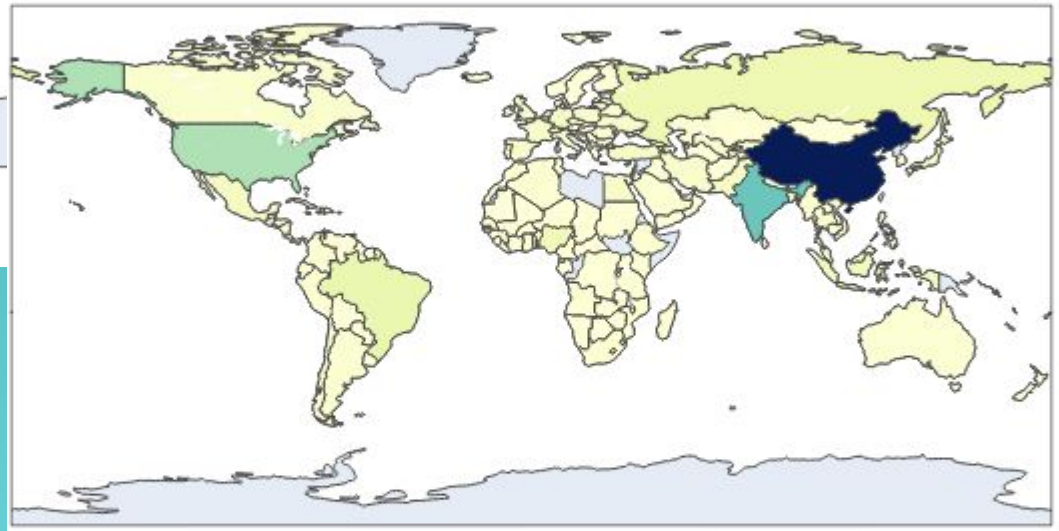
115 million households

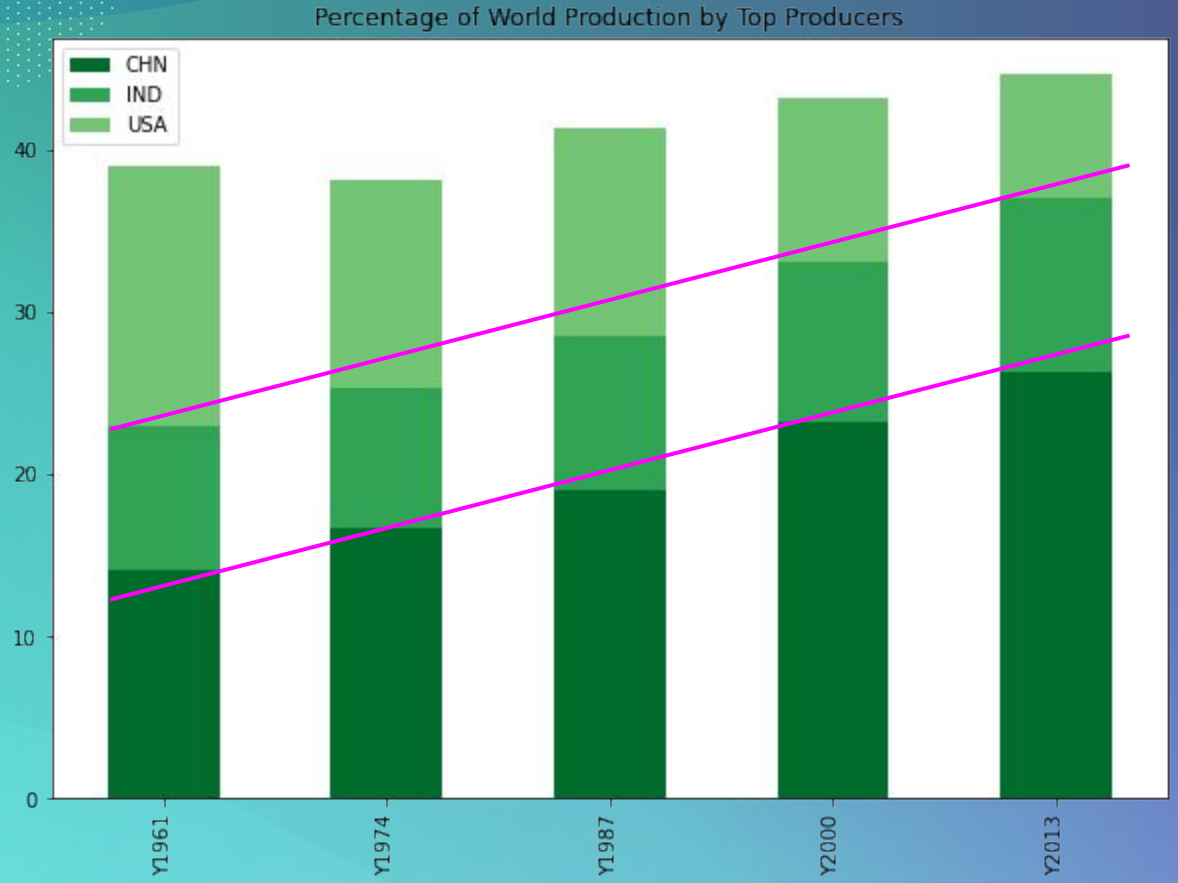
1 out of 10...



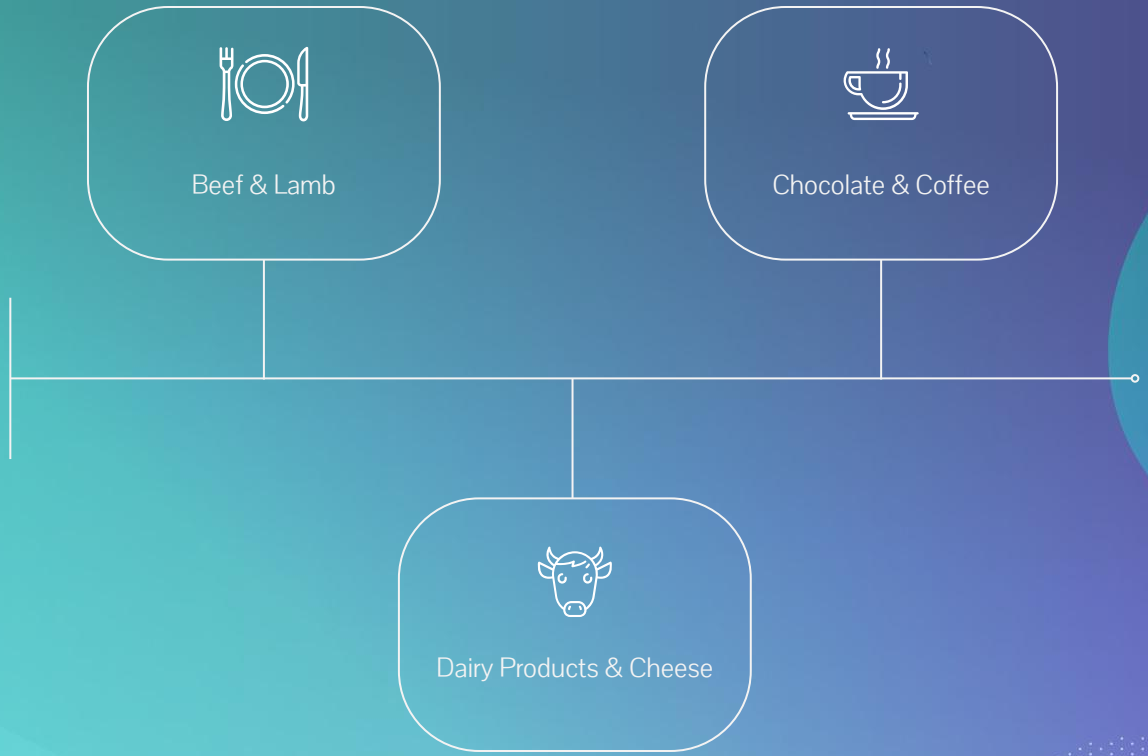
… Americans has no idea where their next meal is coming from

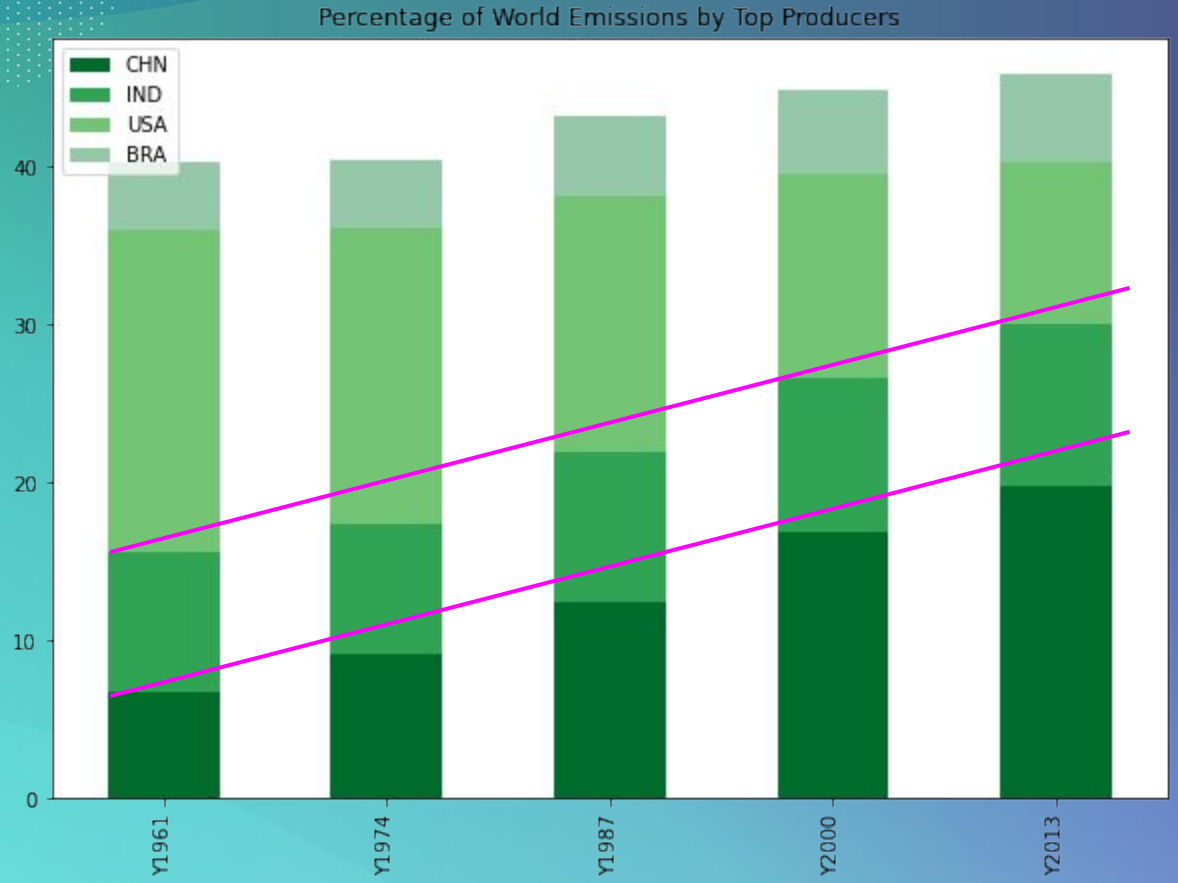

Y1961
500M
400M
300M

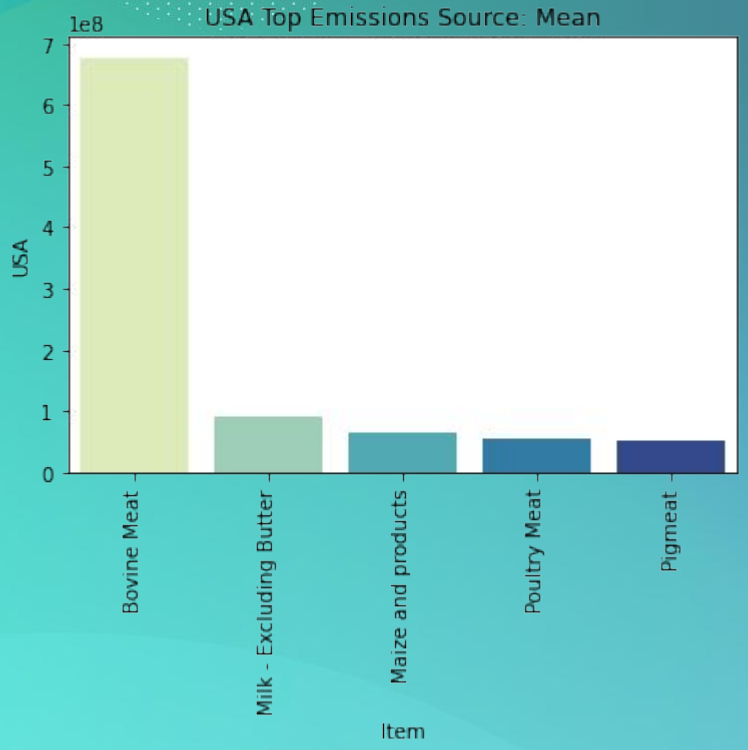

Y2013
3B
2.5B
2B
1.5B
1B
0.5B
0

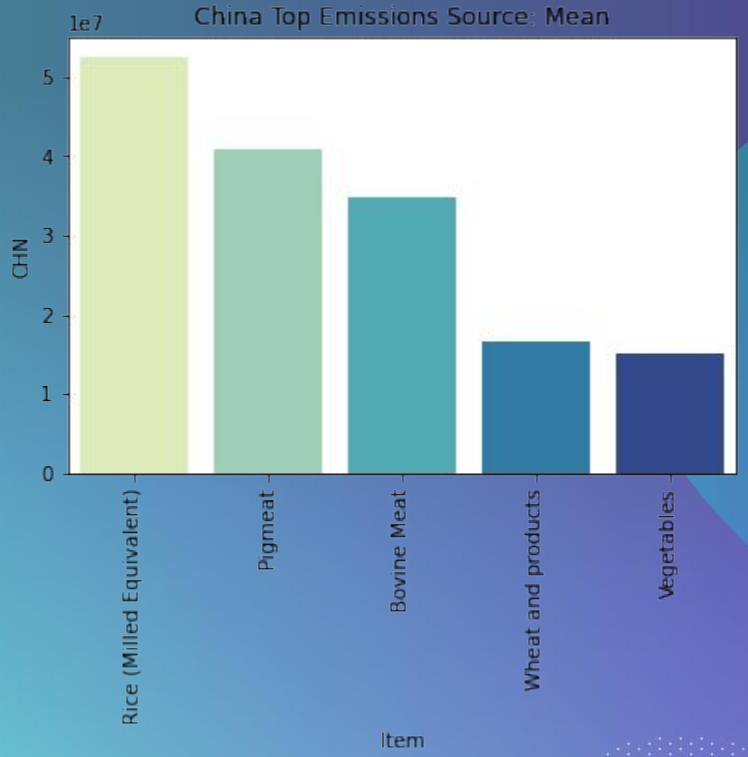

Percentage of World Production by Top Producers
CHN
IND
USA
40
30
20
10
0
Y1961
Y1974
Y1987
Y2000
Y2013

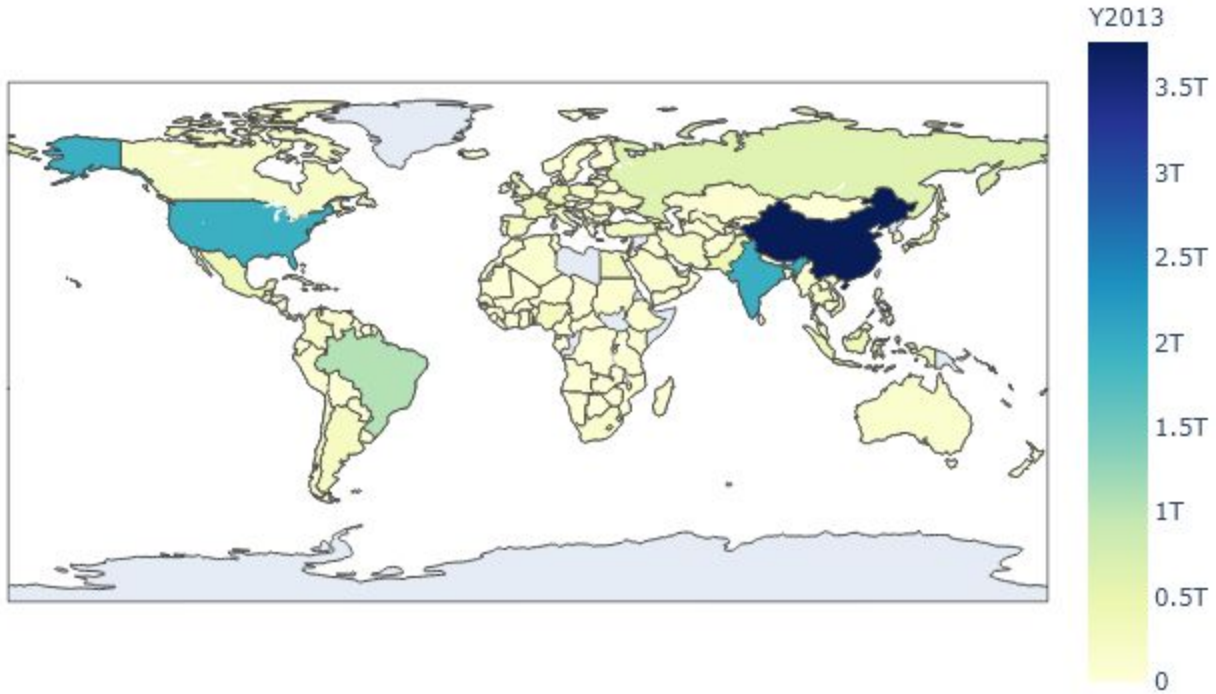
Product Emissions




Percentage of World Emissions by Top Producers
CHN
IND
USA
BRA
40
30
20
10
0
Y1961
Y1974
Y1987
Y2000
Y2013


USA Top Emissions Source: Mean
1e8
USA
0
1
2
3
4
5
6
7
Bovine Meat
Milk - Excluding Butter
Maize and products
Poultry Meat
Pigmeat
Item


China Top Emissions Source: Mean
1e7
CHN
0
1
2
3
4
5
Rice (Milled Equivalent)
Pigmeat
Bovine Meat
Wheat and products
Vegetables
Item


Y2013
3.5T
3T
2.5T
2T
1.5T
1T
0.5T
0

Future Work

1. **Labor Rates**
   Comparing the change in production
2. **Land Use**
   Impact of pesticides and fertilizers
3. **Modelling**
   Predicting future emissions
4. **Import/Export**
   How much product are countries handling at port?

THANKS

Does anyone have any questions?

https://github.com/kailakay/Capstone

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