Poverty Factors and Predictability

By Kishan Patel

Intro: Data

• Who: 12,600 People Surveyed

Where: Across 7 different countries

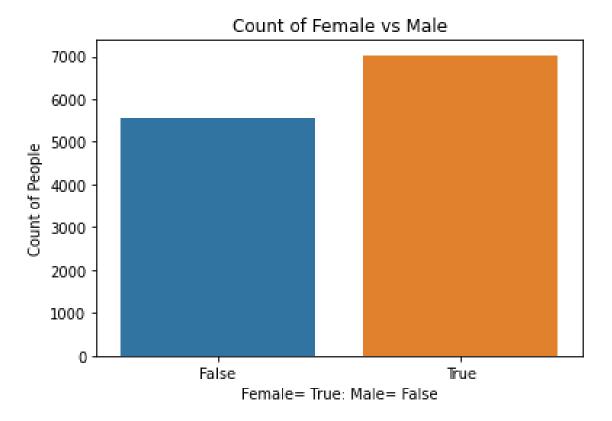
• Measure: Poverty Probability Index (PPI)- % of target households living below the poverty line (\$2.50/day threshold)

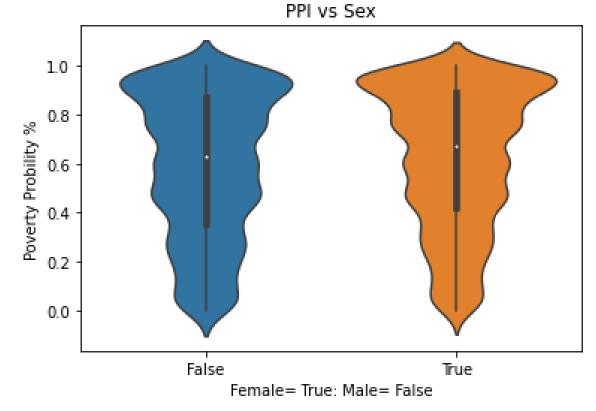
Question: What factors attribute to poverty?

Purpose: If we can define these poverty factors, we can focus on allocating resources to them to create a better economic system as a whole.

General Demographics

Sex

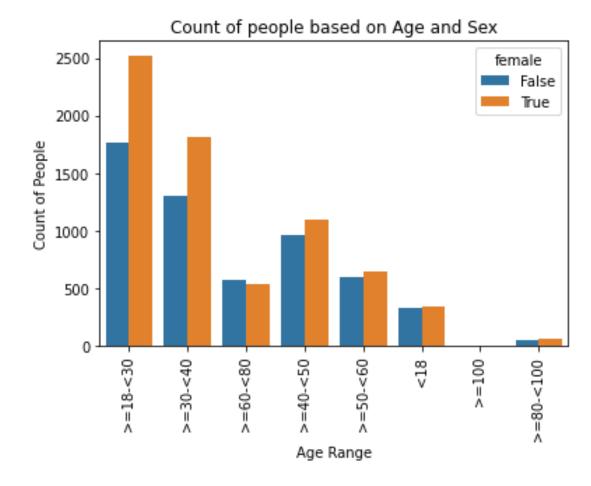


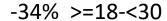


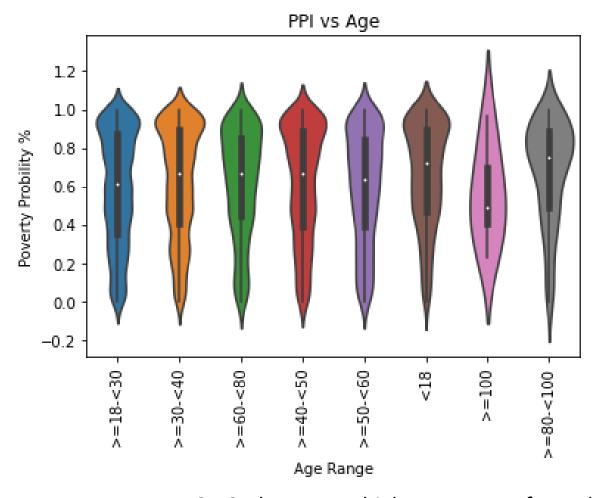
- -56% Female
- -44% Male

-For both sexes, there are a higher amount of people who are above 80% PPI followed by an increase at 50% mark.

Age

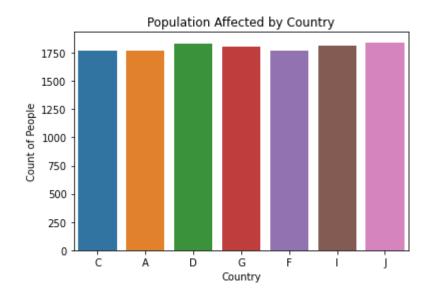


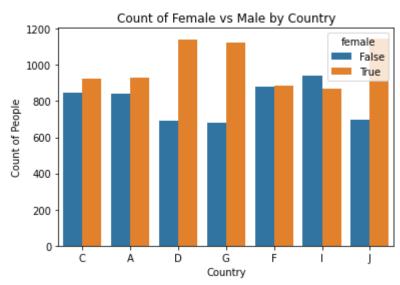


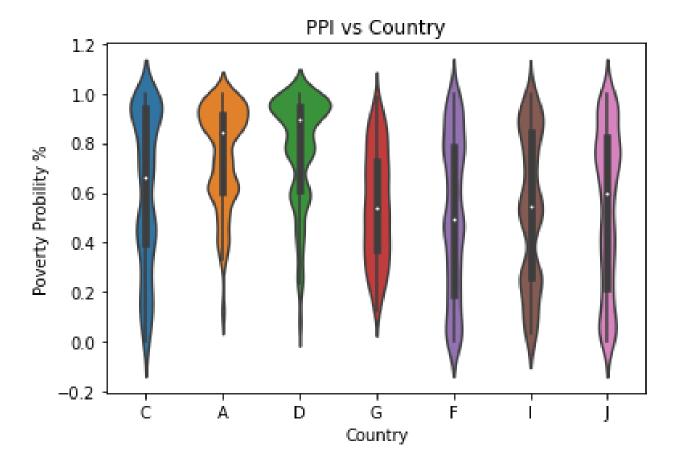


- -From ages 18-79, there are a higher amount of people With PPI above 80%.
- -Starting at age 80, more people start to have a lower PPI.

Country

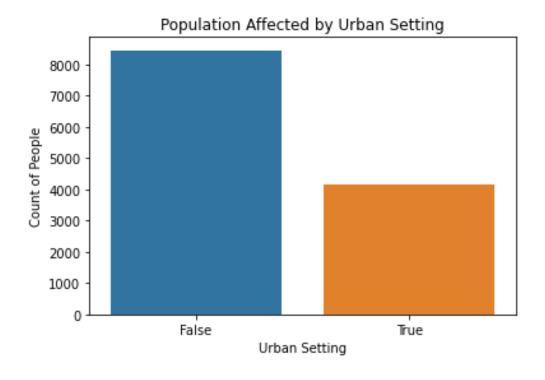




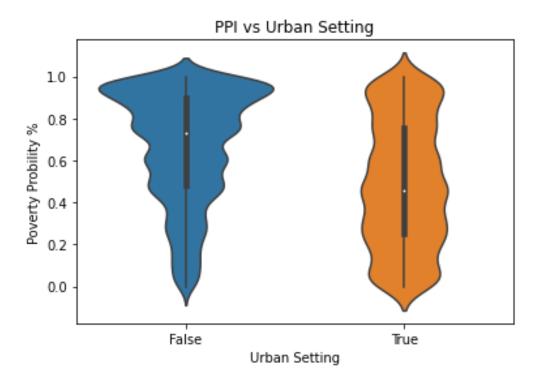


- -There was an about equal amount of people surveyed per country.
 -Counties D, G and J seemed to have the most sex discrepancies.
- -Countries A and D followed by C had more people with a higher PPI, With country G being more uniform with its PPI.

Urban Setting

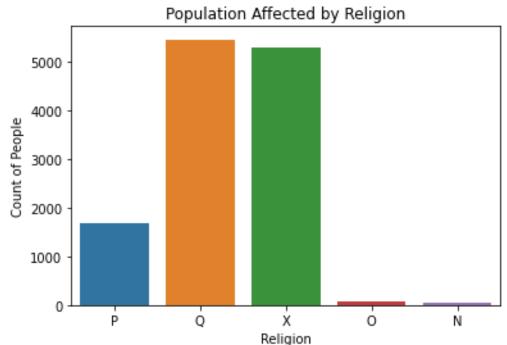


- -False 67%
- -True 32%



- -Most of the population was not urban.
- -Those who weren't, had a higher pop with a PPI >80%.
- -Those who were, had a uniform amount of PPI, Highest ranged from 20-50%.

Religion



Q

X

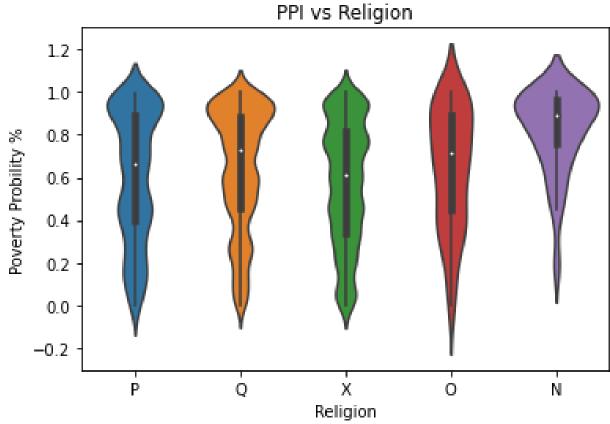
P

43%

42%

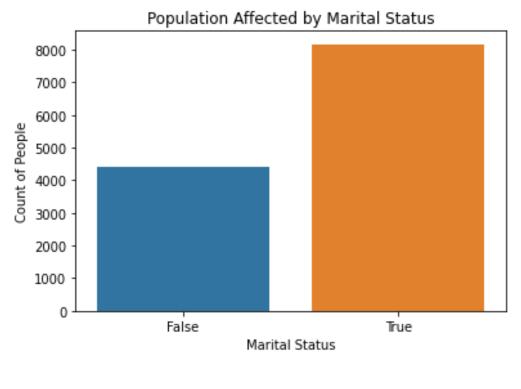
13%





- -Pop of religions P and Q seem to spike at a PPI >80%
- -Pop of religion X and 2 seem to but more uniform
- -Most Pop of religion N seem to be concentrated at a higher PPI.

Marital Status



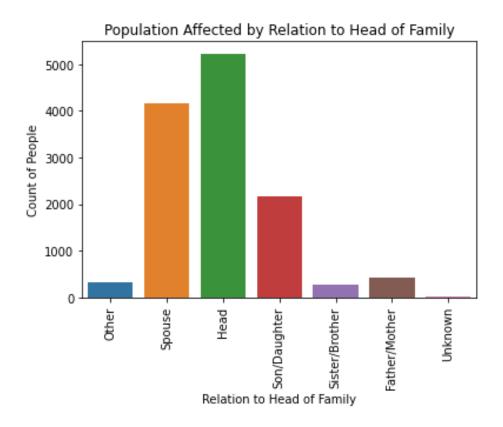
-True 65%

-False 35%

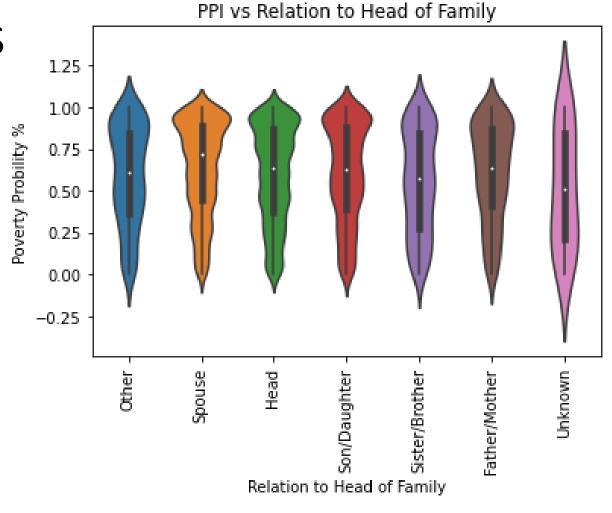


- There were more married people than single.
- Of the married, there was an equal amount of people with a higher PPI >80%.
- Of the unmarried, males were more uniform with a peak at 40% PPI and another at 70%. Females were seeing higher above 70%

Family Member Status



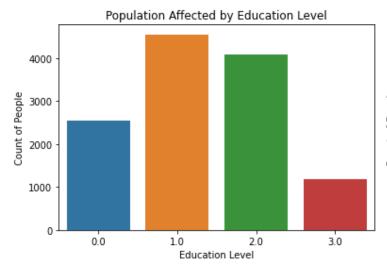
Head 43% Spouse 33% Son/Daughter 17%

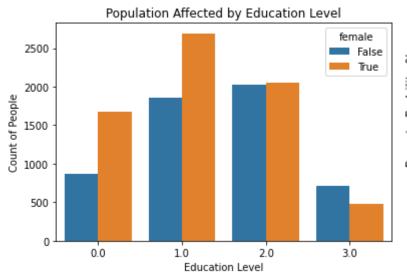


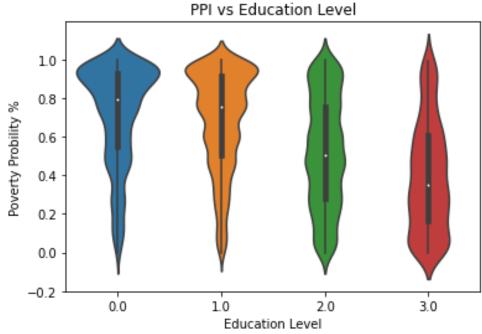
- -Most reported that they were Head of the house or the spouse of the head.
- Most showed having a higher PPI >75%, with Sister/Brother status being more uniform throughout.

Education

Education Level





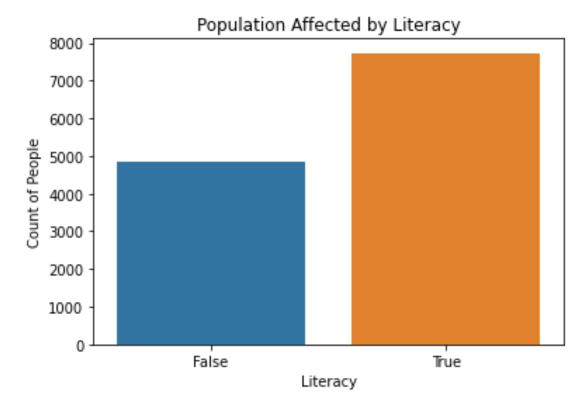


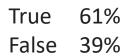
1.037%2.033%0.021%3.010%

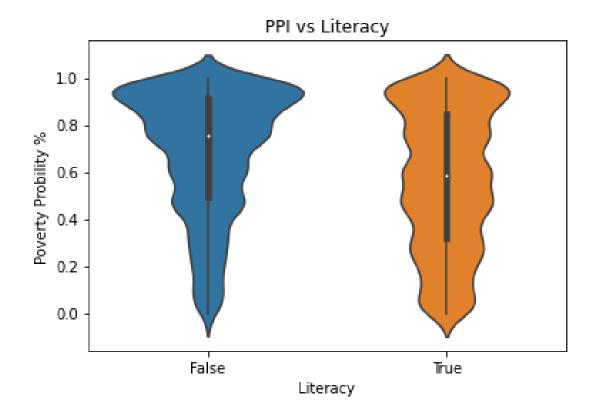
- -There were more people with type 1 and 2 education.
- -Females seemed to have gone under more schooling but more males have a higher (3) education.

-People with lower education seem to have a higher PPI score.

Literacy



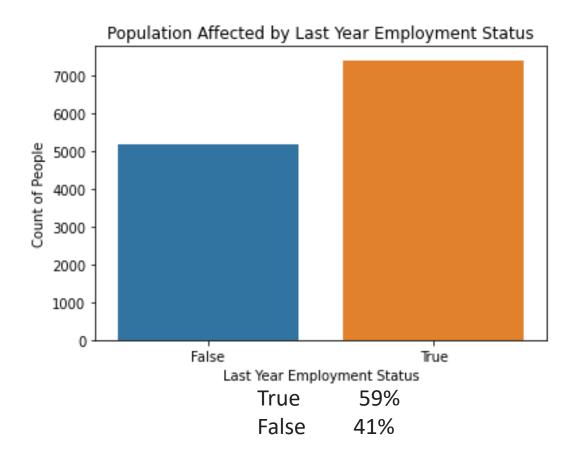




-People who cold not read had a higher PPI, while people who could were more uniform.

FINANCE

Previous Year Employment

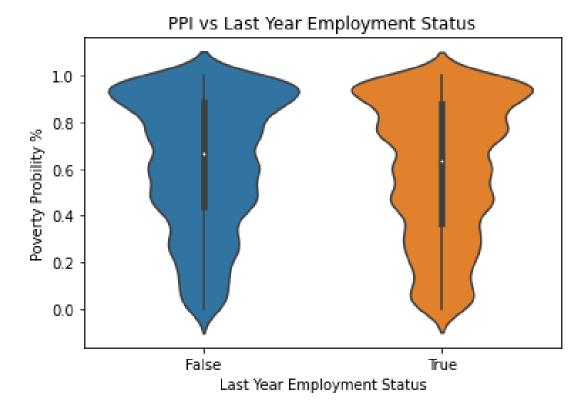




Employed	59%
Housewife or student	29%
Other	5%
Unemployed	4%
Retired or disabled	3%

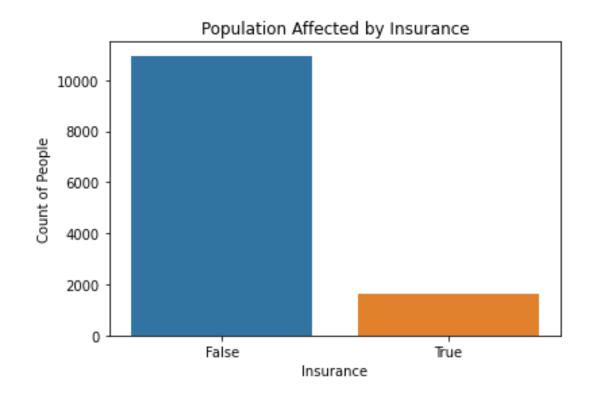
Previous Year Employment Type:

Not working	36%
Self employed	25%
Irregular seasonal	19%
Salaried	16%
Other	5%

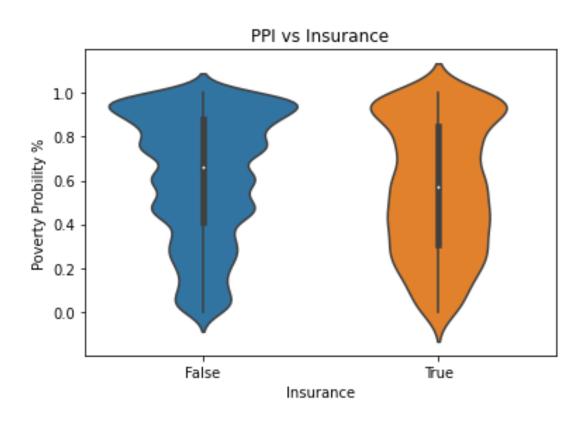


- More people were employed the previous year than not.
- Those who were not employed had a higher PPI spiking at 50% and then again at 90%

Insurance

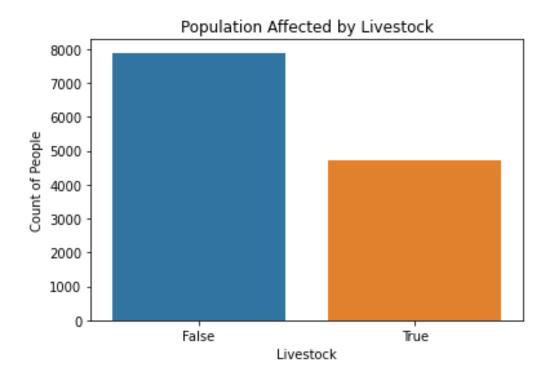


False 87% True 13%

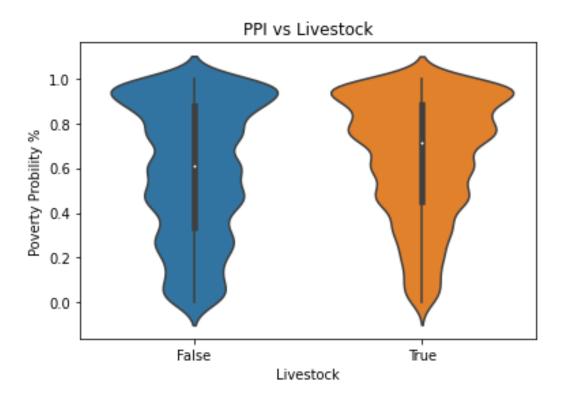


-Only 13% had insurance, those who did seemed to have more of a lower PPI score

Income: From Livestock

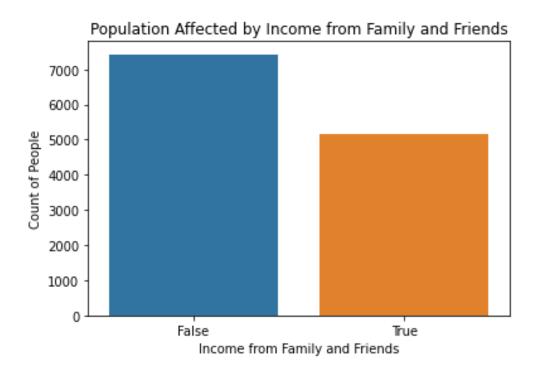


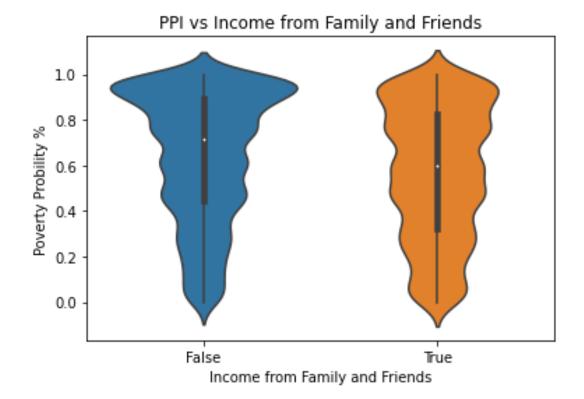
False 63% True 37%



-More people who got their main income from livestock had a PPI score >70%

Income: From Family and Friends

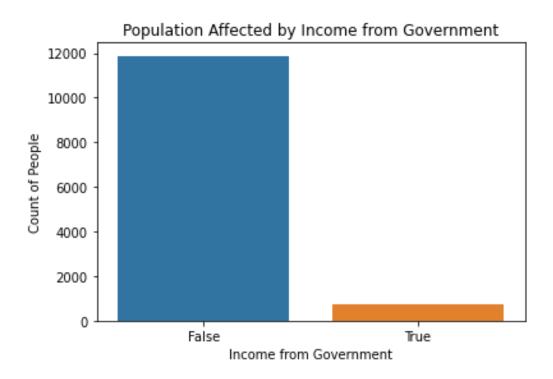




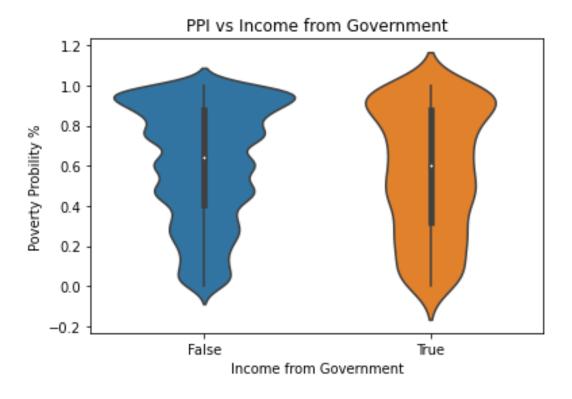
False 59% True 41%

-People who had financial help from family and friends seemed to have more uniform PPI scores vs who didn't have help.

Income: From Government

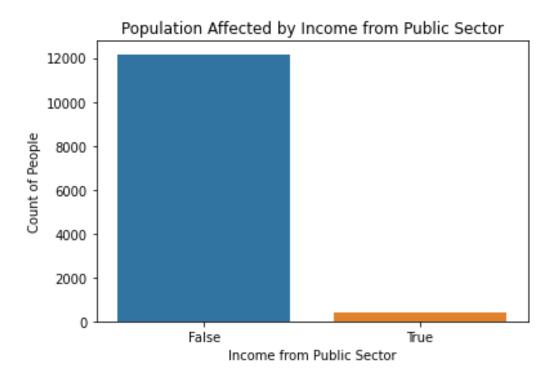


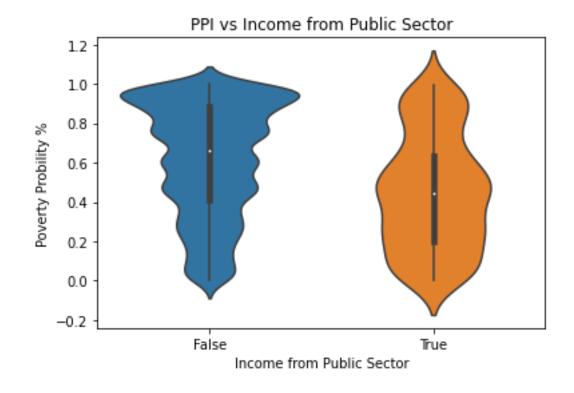
False 94% True 6%



- Only 6% of the population received help form the government. Those who did seemed to have more uniform PPI scores but still peaked above >80%.

Income: From Public Sector



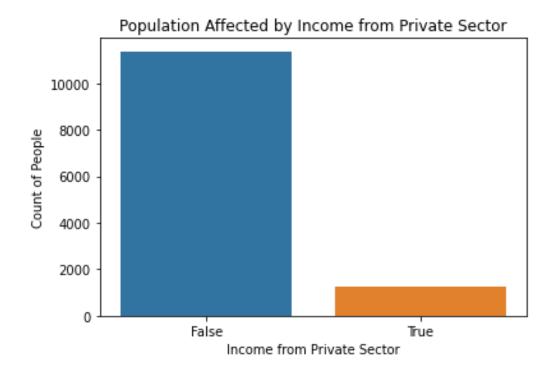


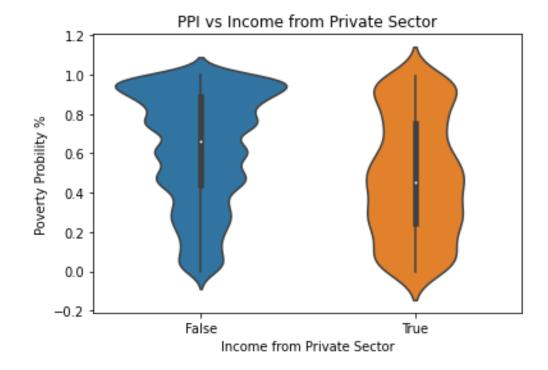
False 97% True 3%

-Only 3% received help from a private sector.

Most who did had a PPI <50%

Income: From Private Sector

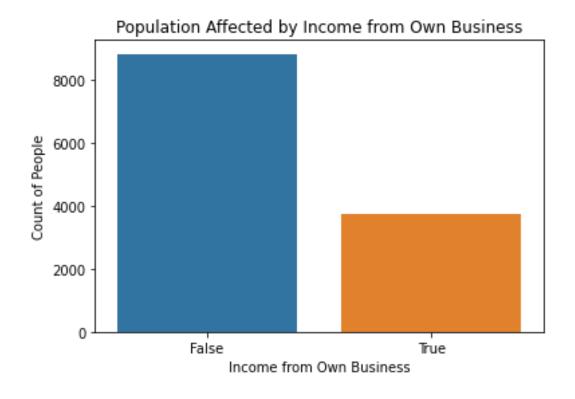


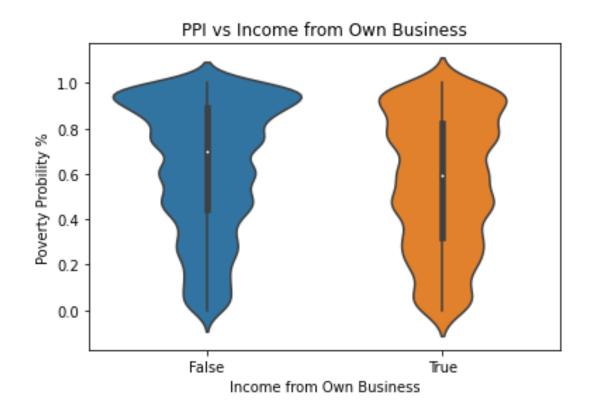


False 90% True 10%

-Only 10% received help from a private sector. Most who did had a PPI <50%

Income: From Own Business

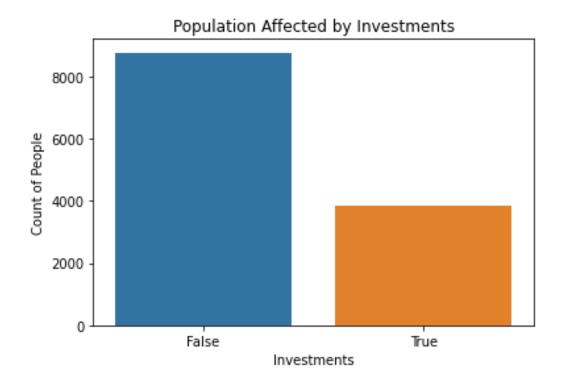


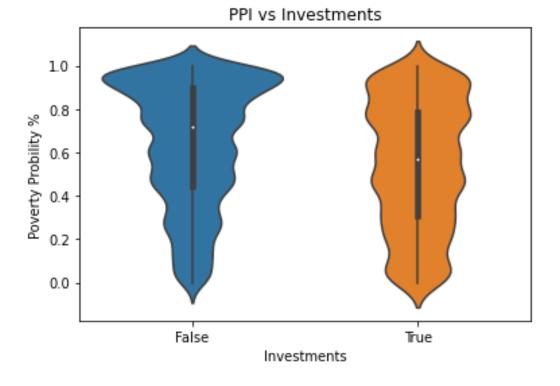


False 70% True 30%

-People who had their own business had lower PPI

Investments



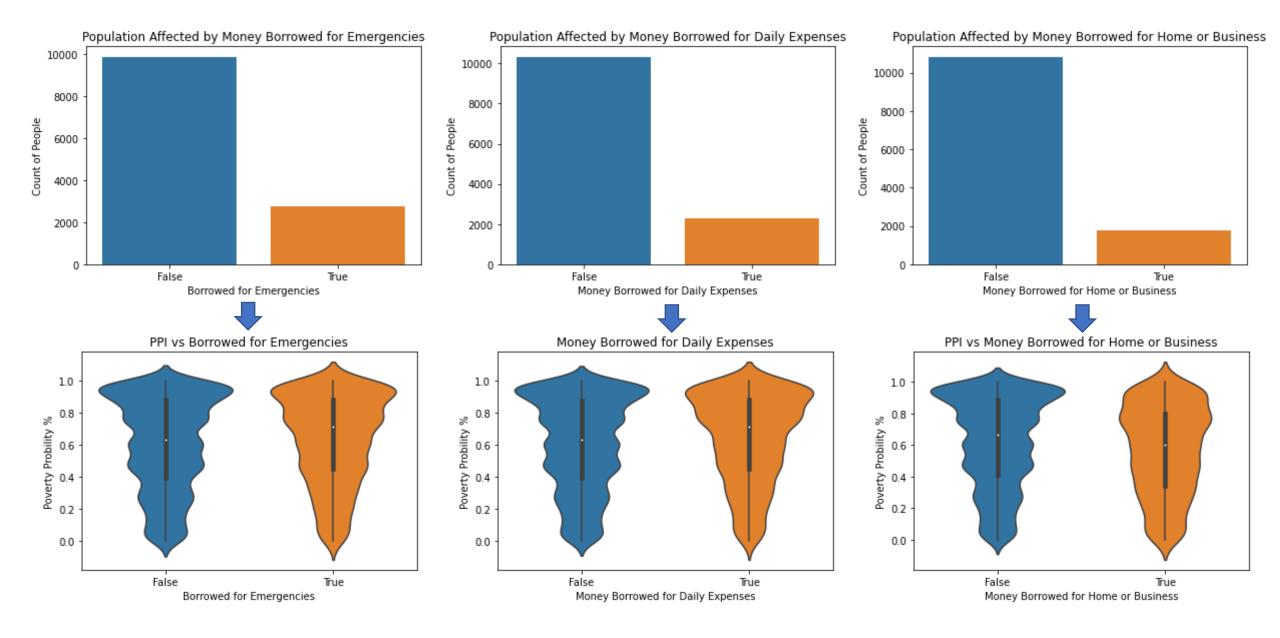


False 70% True 30%

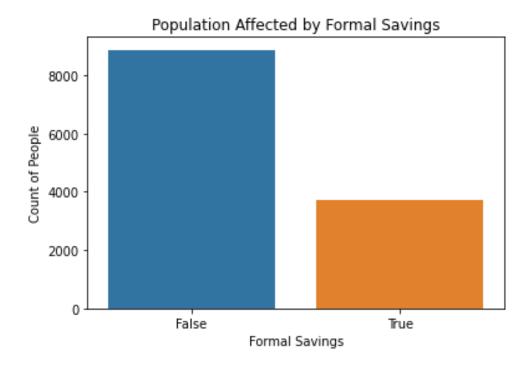
-Those who invested money had a lower PPI score

Money Borrowed

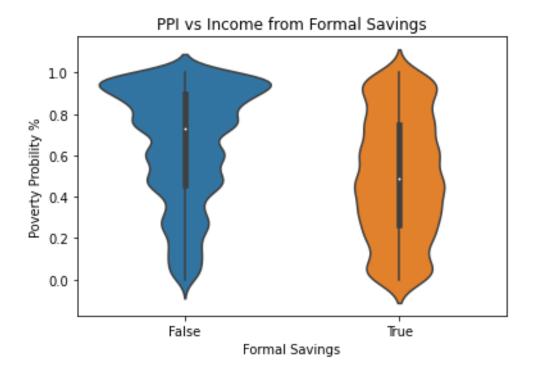
-Most who borrowed money still had a high PPI score



Formal Savings

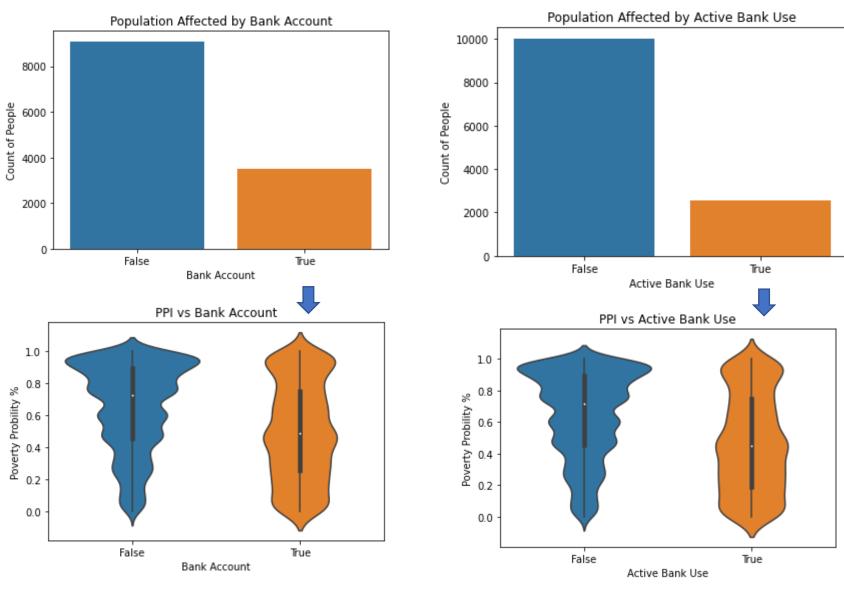


False 70% True 30%



- -Only 30% of the population had savings.
- -Most who did, maintained a peak PPI <60%

Bank Account vs Active Use

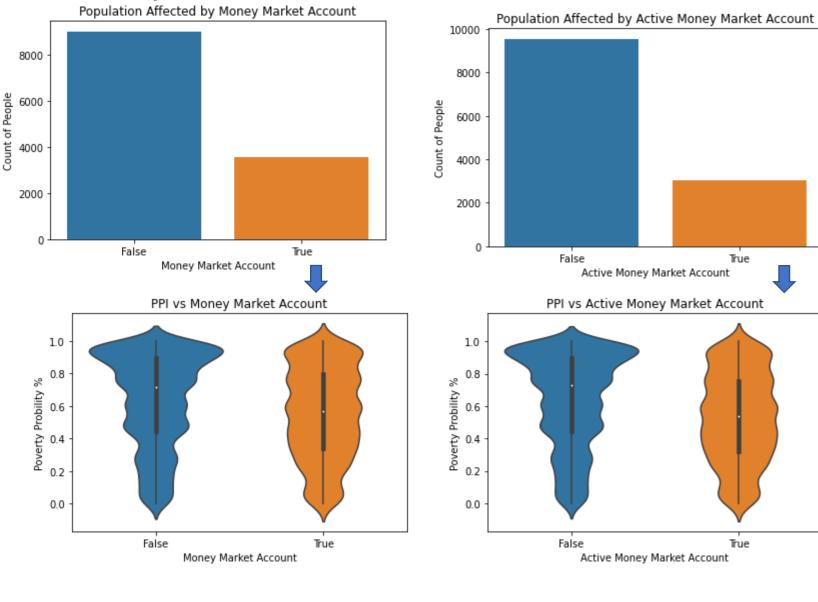


False 80% True 20%

- Lower PPI with Bank Account
- Even Lower PPI with Active Use

False 72% True 28%

Money Market Account vs Active Use



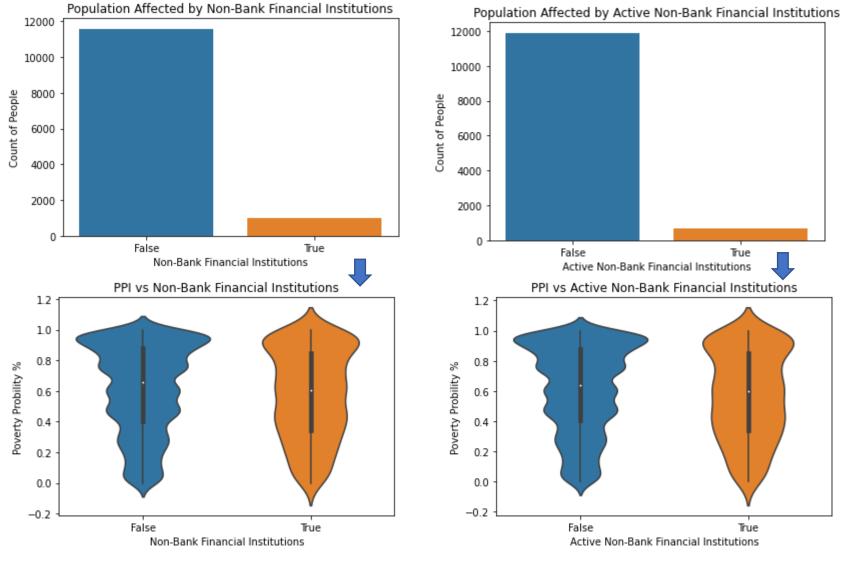
- Lower PPI with MM Account
- Even Lower PPI with Active Use

*MM account- Pays a higher interest rate than regular bank account

False 72% True 28%

False 76% True 24%

Non-Bank Financial Institutions vs Active Use



- Lower PPI with NBFI Account
- No change with Active Use

funds, or commodity traders, casinos, clubs

*NBFI= brokers/dealers,

investment advisers,

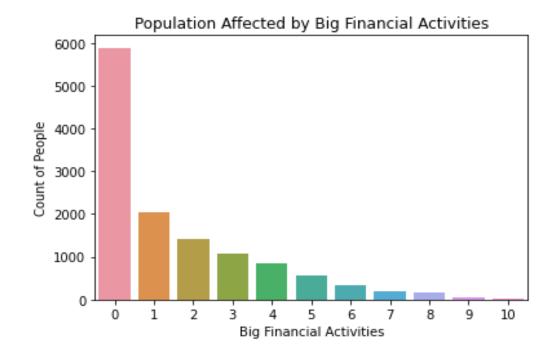
mutual funds, hedge

etc.

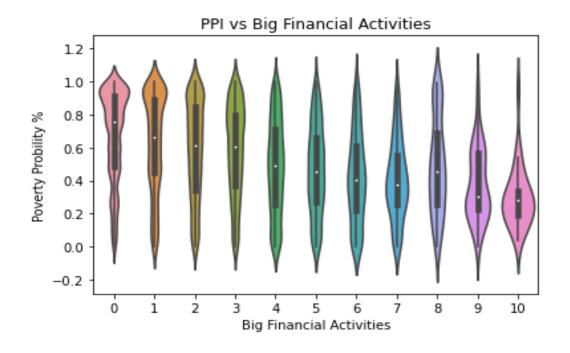
False 94% True 6%

False 92% True 8%

Financial Activities



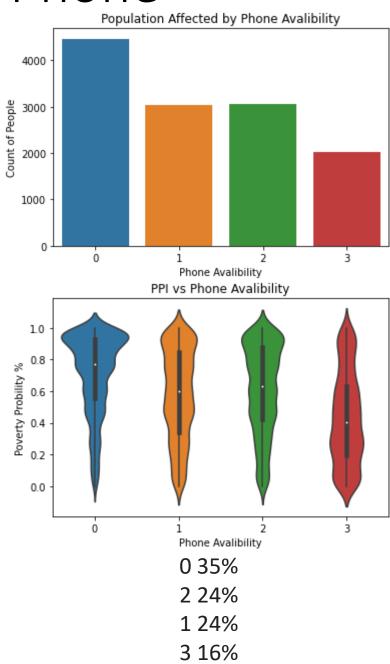
- 0 47%
- 1 16%
- 2 11%
- 3 9%
- 4 7%
- 5 4%

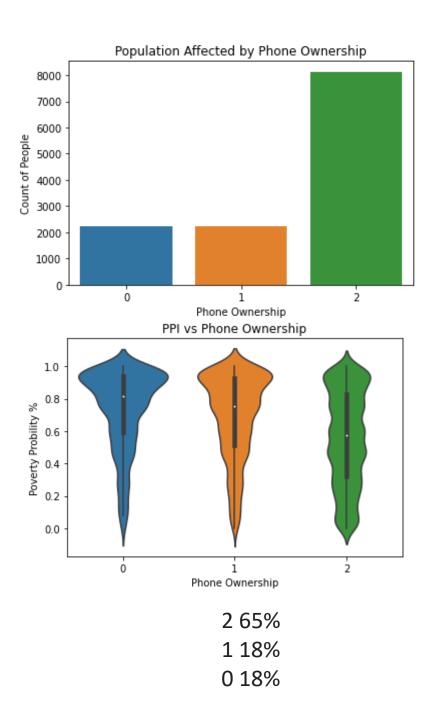


-Higher the PPI, less big financial activities a person can be involved in

Technology Communication

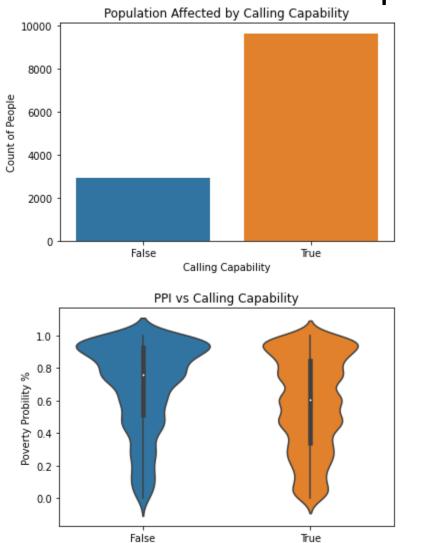
Phone





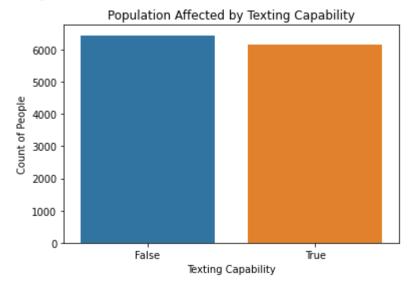
- People with less phone availability, had a higher PPI score.
- People who owned 2 phones had a lower PPI score

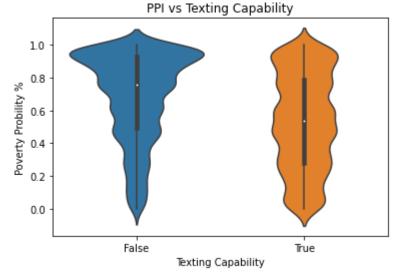
Call and Text Capability



True 77% False 23%

Calling Capability

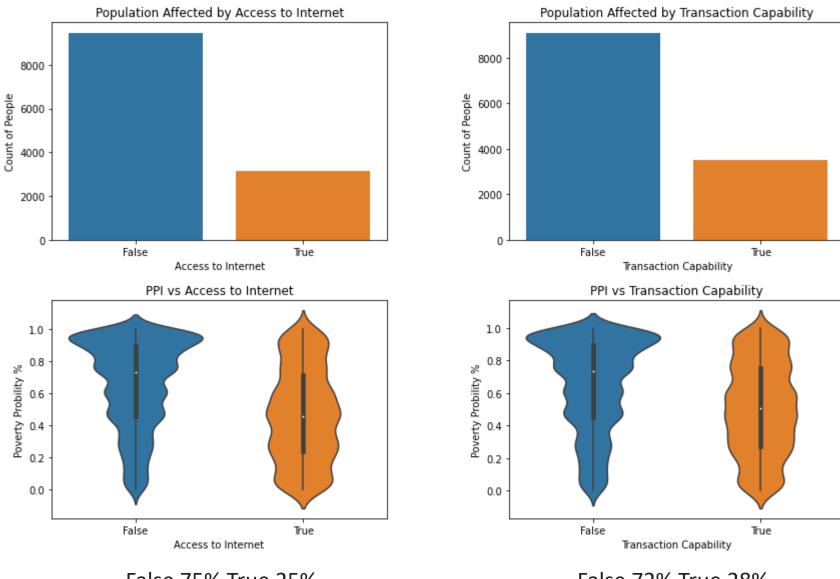




False 51% True 49%

- People with calling capability had a bit lower PPI score.
- People with texting capability had even lower PPI score.

Internet and Transaction Capability



-Access to internet and able to buy dramatically reduces PPI

False 75% True 25%

False 72% True 28%

Summary: Demographics

- 1. Sex- Females are more likely to be in poverty.
- 2. Age- No major discrepancies.
- 3. Country- Countries A, D and C are more likely to be in poverty.
- 4. Urban Settings- Non-urban people are more likely to be in poverty.
- 5. Religion-Religion N was more likely to be in poverty followed by P and Q
- 6. Marital Status-
- Non married Females and married couples are more likely to be in poverty.
- 7. Family Member Status-Every member besides sister/brother field were likely to be in poverty.
- 8. Financial Activity- Higher the PPI= less activities a person can do.

Summary: Large Reduction to Poverty

- 1. Income: Public Sector-Little given out but dramatically reduced chance of poverty.
- 2. Income: Private sector-Little given out but also helped a lot to reduce chance of poverty.
- 3. Formal Savings- Having savings dramatically reduced chance of poverty.
- 4. Bank Account and Active use- dramatically reduced chance of poverty.
- 5. Money Market Account and Active Use dramatically reduces chance of poverty.
- 6. Internet and Transaction Capability-dramatically reduces chance of poverty.

Summary: Moderate Reduction to Poverty

- 1. Education-People with lower education level are more likely to be in poverty.
- 2. Literacy- Inability to read linked to likely more poverty.
- 3. Insurance- People with insurance reduces the chance of poverty.
- 4. Income: Family and Friends- Help reduces the chance of poverty
- 5. Phone- Access to/owning 2 phones reduces chances of poverty.
- 6. Call and Text Capability-Both reduces changes of poverty, esp being able to text.

Summary Very Little Reduction to No Change in Poverty

- 1. Income: Government-Help given by government was very sparce but did help a little.
- 2. NBFI- No change to very little reduction in chances of poverty.
- 3. Income: Own Business- Helped reduce chance of poverty a little.
- 4. Investments- Helped reduce chance of poverty a little.
- 5. Year Employment-Being employed reduces the chance of poverty but not a substantial a mount.

Summary: Increased Chance of Poverty

- 1. Income: Livestock-Livestock seems to increase the chance of poverty.
- 2. Money Borrowedborrowing increased the chance of poverty unless it was for home or business reasons.