Income Qualification Project Write-up

• Identify the output variable.

Output is the Target Variable which is ordinal and indicates the poverty levels

appreciate the type of data.

There are three data types involved. Int, float and object.

• Check if there are any biases in your dataset.

Yes there is bias. Extreme poverty is the smallest.

• Check whether all members of the house have the same poverty level.

No, since there were households where target variable is not same for all the family members in the household.

• Check if there is a house without a family head.

There are houses without a family head

Set poverty level of the members and the head of the house within a family.

Please refer to Screenshots or Source code

• Count how many null values are existing in columns.

Below is the column wise count of Null Values.

v2a1 6860 v18q1 7342 rez_esc 7928 meaneduc 5 SQBmeaned 5

Remove null value rows of the target variable.

Please refer to Screenshots or Source code

• Predict the accuracy using random forest classifier.

0.9267782426778243

• Check the accuracy using random forest with cross validation.

94.60081361157272