

Multi-Class Classification

- Task of classifying elements into Different class.
- It Doesn't restrict itself to any number of classes.

eg:

classification of news in Different categories

- classifying books according to the subject
- classifying students according to their streams.

There are Different classes for the response Variable to be classified.

→ There can be any no of classes in it

→ Algorithm that use for multiclass classification:-

→ k -Nearest Neighbors

→ Decision Tree

→ Naive Bayes

→ Random Forest

→ Gradient Boosting

Now,

- Here, to classify each record into Specific type of Crimes.

we first cleaned up the data

we have 25 classes of crimes,

→ Resource does not allow ~~to~~ do multiclass classification at this scale.

∴ we only picked up ^{top} four types of crimes.

- Theft
- Battery
- Criminal Damage
- Narcotics
- Assign an Integer Identifier
- Split the Data.

Further, multiclass classification, ~~was~~ ~~in the~~ Included in the project.