

Documentation (Kaggle - WhatsCooking)

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ES16BTECH11007

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Submission and Description		Public Score	Use for Final Score
KNN_Output.csv an hour ago by batman717 add submission details		0.51005	<input type="checkbox"/>
DecisionTreeOutput.csv 4 hours ago by batman717 add submission details		0.61574	<input type="checkbox"/>
NaiveBayesOutput.csv 4 hours ago by batman717 add submission details		0.34442	<input type="checkbox"/>

I have applied all three methods (KNN, Naive Bayes, Decision Trees).

Accuracy in KNN = **0.51005**

Accuracy in Naive Bayes = **0.34442**

Accuracy in Decision Trees = **0.61574**

The accuracy in Naive Bayes is very low. This maybe due to the reason that the data is sparse and that smoothening methods must have been applied.

The accuracy in decision Tree is slightly better than Naive Bayes. This maybe because the tree was able to capture the ingredients of the cuisine better by forming nodes with cuisines which had similar ingredients. But since the number of cuisines is very high and the training data is sparse, it

maybe that the tree might not have captured better general ingredient to cuisine map with the given data.

The accuracy in KNN is moderately low, maybe because the number of nearest neighbours was not chosen accurately or maybe because of the data being sparse, but it was slightly able to capture the ingredients that mapped to the same cuisine.