181805057 – Kardelen Gel
181805067 – Buse Latife Beker

Biomedical Signal Analysis and Machine Learning - Final02 Report

For Part 1:

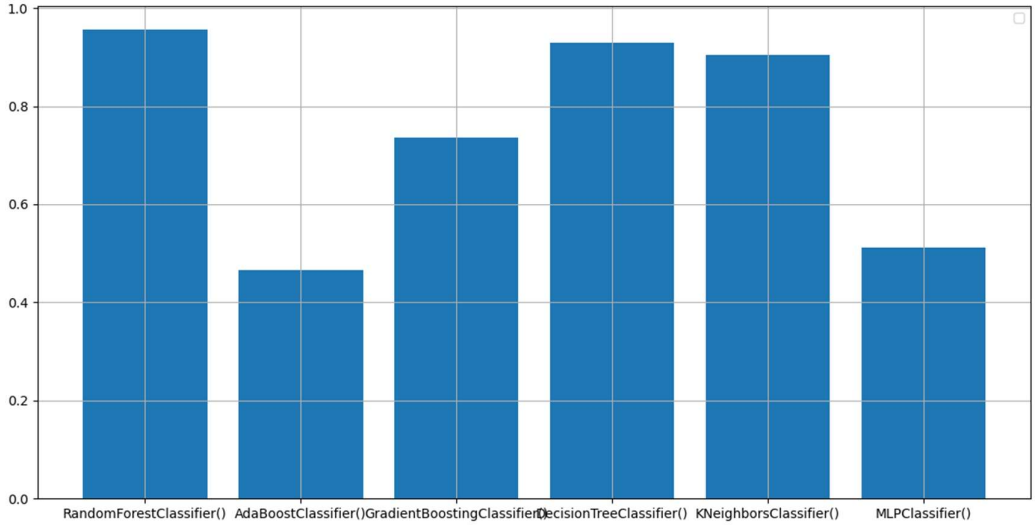
By adding the csv file we trained to the Orange program, we selected the feature over Rank. The purpose of choosing the first 5 features is to design a model that can achieve maximum accuracy.

		#	ANOVA
1	zero8		11099.106
2	pp4		10169.720
3	zero7		9825.120
4	min4		9808.282
5	rms5		9446.064

When we work with these features, the output of which classifier and how much accuracy we get is as follows:

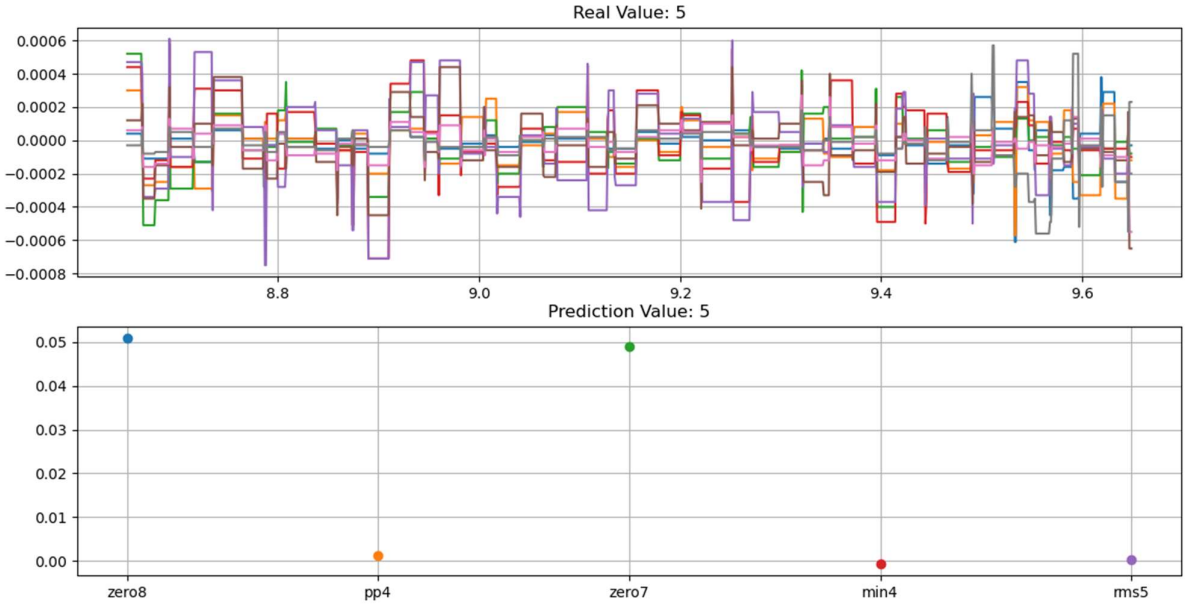
```
argument.
RandomForestClassifier() 0.9568860055607044
AdaBoostClassifier() 0.4655050973123262
GradientBoostingClassifier() 0.7364967562557924
DecisionTreeClassifier() 0.9289341983317886
KNeighborsClassifier() 0.903651529193698
MLPClassifier() 0.5117330861909176
Out[12]: RandomForestClassifier()
```

In this case, the classification algorithm that gives the highest accuracy is RandomForestClassifier.



For Part 2:

Correct guesses:



Incorrect guesses: