

## ROOT2AI Technology Private Limited

### Artificial Neural Networks internship

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**Problem statement:**

create a classification model based on the below mentioned dataset.

Split the dataset in train & test

**Dataset Link:**

<https://docs.google.com/spreadsheets/d/1DLL6BTXiHHsn1w9NvVi0BZbass0QU0RSvKEXtJlwfCM/>

**Meta data:**

1. Text : contains text from blockchain domain
2. Target : target class

Prepare a report (pdf/pptx) based on your model result.

Report should contain below points.

1. Your thoughts on problem or what was your approach to solve the problem
2. Model Interpretation
3. Train & test accuracy score
4. Limitation of the model.
5. You can add your own points as well

**Solution:**

- *My approach towards the problem :*

First i tried to split the data into test and train but to build the classification model the data must be either into integer or float data structure.so i tried to convert the characters in the data set into corresponding ascii value and stored it in np.array as per the requirement of the train\_test\_split function. After that used appropriate logic to build the model.

- **Model Interpretation:**

I have included the interpretation in the jupyter notebook:Root\_2ai assignment-random forest classification trial on my Git Repo.

- **Train & test accuracy score:**

```
In [165]: 1 clf.feature_importances_
Out[165]: array([8.70290703e-05, 2.19945016e-04, 4.47069688e-02, ...,
                0.00000000e+00, 0.00000000e+00, 0.00000000e+00])

In [166]: 1 model.score(a_train, b_train)
Out[166]: 0.4450011010790575

In [168]: 1 model.score(a_test, b_test)
Out[168]: 0.9960361153930852
```

- **Limitation of the model.:**

I've added one extra zero row because I wasn't able to perform np.append action with my existing attributes.