

MODEL BUILDING

Date	15 November 2022
Team ID	PNT2022TMID49672
Project Name	Efficient Water Quality Analysis and Prediction Using Machine Learning
Maximum Marks	8 Marks

DT

[228]

```
... DecisionTreeClassifier(min_samples_split=10)
```

[229]

... 58.84146341463414

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Get StartedWater Quality Prediction .ipynb

C: > Users > ELCOT > Desktop > Water-Quality- > Water Quality Prediction .ipynb > Exploratory Data Analysis > df.isnull().sum()

+ Code + Markdown ...

...0.5884146341463414

[234]print("Feature importances:\n{}".format(dt.feature_importances_))Python

...Feature importances:
[0.14979308 0.1306299 0.11639812 0.10910309 0.11691893 0.09302001
0.10460544 0.10201786 0.07751357]

[233]confusion_matrix(prediction,Y_test)Python

...array([[272, 140],
[130, 114]], dtype=int64)

Prediction on only one set of data

[240]X_DT=dt.predict([[5.735724, 158.318741,25363.016594,7.728601,377.543291,568.304671,13.626624,75.952337,4.732954]])Python

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