

TEAM ID: PNT2022TMID17645

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### Clustering

- **Clustering:** grouping objects in clusters
  - *Similar* within cluster
  - *Dissimilar* between clusters
- **Example:** Grouping similar animal photos
  - No labels
  - No **right** or **wrong**

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### Applications of Unsupervised Learning

Areas where Unsupervised Learning is used

Unsupervised Learning

Market Basket Analysis Semantic Clustering

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```

In [10]: from sklearn import tree
In [11]: model = tree.DecisionTreeClassifier()
In [12]: model.fit(inputs_n,target)
Out[12]: DecisionTreeClassifier(class_weight=None, criterion='gini', max_depth=None,
max_features=None, max_leaf_nodes=None,
min_impurity_decrease=0.0, min_impurity_split=None,
min_samples_leaf=1, min_samples_split=2,
min_weight_fraction_leaf=0.0, presort=False, random_state=None,
splitter='best')
In [ ]: model.score(inputs_n,target)

```

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## Flask – Variable Rules

Consider the following code:

```
from flask import Flask
app = Flask(__name__)

@app.route('/flask')
def hello_flask():
    return 'Hello Flask'

@app.route('/python/')
def hello_python():
    return 'Hello Python'

if __name__ == '__main__':
    app.run()
```

Run the code

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# Clustering

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  - *Similar* within cluster
  - *Dissimilar* between clusters



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```

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In [12]: model.fit(inputs_n,target)
Out[12]: DecisionTreeClassifier(class_weight=None, criterion='gini', max_depth=None,
max_features=None, max_leaf_nodes=None,
min_impurity_decrease=0.0, min_impurity_split=None,
min_samples_leaf=1, min_samples_split=2,
min_weight_fraction_leaf=0.0, presort=False, random_state=None,
splitter='best')
In [13]: model.score(inputs_n,target)
Out[13]: 1.0
In [16]: model.predict([1,0,1])
Out[16]: array([1], dtype=int64)

```

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# Flask – Redirect & Errors

Standardized status codes

Prototype ⇒ Flask.abort(code)

Sl.no	Status Code
1	HTTP_300_MULTIPLE_CHOICES
2	HTTP_301_MOVED_PERMANENTLY
3	HTTP_302_FOUND
4	HTTP_303_SEE_OTHER
5	HTTP_304_NOT_MODIFIED
6	HTTP_305_USE_PROXY
7	HTTP_306_RESERVED

Sl.no	Code	Description
1	400	Bad Request
2	401	Unauthenticated
3	403	Forbidden
4	404	Not Found
5	406	Not Acceptable
6	415	Unsupported Media Type
7	429	Too Many Requests

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Relationship: Height - Weight?

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$$y = mx$$

$$y = mx + c$$

$$x = 1$$

$$y = 1(1) = 1$$

$$x = 2$$

$$y = 1(2) = 2$$

$$y = 1(3) = 3$$

$$m = 1$$

$$c = 0$$

$$y = x$$

Loss func =  $\frac{1}{2m} \sum_{i=1}^m (y_i - \hat{y}_i)^2$

$$m = 3$$

$$= \frac{1}{2 \cdot 3} \left( (1-1)^2 + (2-2)^2 + (3-3)^2 \right)$$

$$= 0$$

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### Flask - HTTP Methods

First we look at the HTML file

```
<html>
<body>

<form action = "http://localhost:5000/login" method = "post">
<p>Enter Name:</p>
<p><input type = "text" name = "nm" /></p>
<p><input type = "submit" value = "submit" /></p>
</form>

</body>
</html>
```

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```

In [1]: import pandas as pd
df = pd.read_csv('salaries.csv')
df.head()

Out[1]:
  company  job  degree  salary_more_than_100k
0  google  sales executive  bachelors         0
1  google  sales executive  masters         0
2  google  business manager  bachelors         1
3  google  business manager  masters         1
4  google  computer programmer  bachelors         0

In [2]: inputs = df.drop('salary_more_than_100k', axis='columns')
target = df['salary_more_than_100k']

In [3]: input
  
```

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### Flask – Variable Rules



It is possible to build a URL dynamically!

How? By adding variable parts to the rule parameter

Consider the example

```
from flask import Flask
app = Flask(__name__)

@app.route('/hello/<name>')
def hello_name(name):
    return "hello %s!" % name

if __name__ == '__main__':
    app.run(debug = True)
```

http://localhost:5000/hello/edureka

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