

TEAM ID: PNT2022TMID30074

**PROJECT NAME: DemandEst - AI powered Food
Demand Forecaster**

TEAM LEADER: JANANI S

**TEAM MEMBERS : SANDYA S
KOUSAR JAHAN M
NANDHINI V**

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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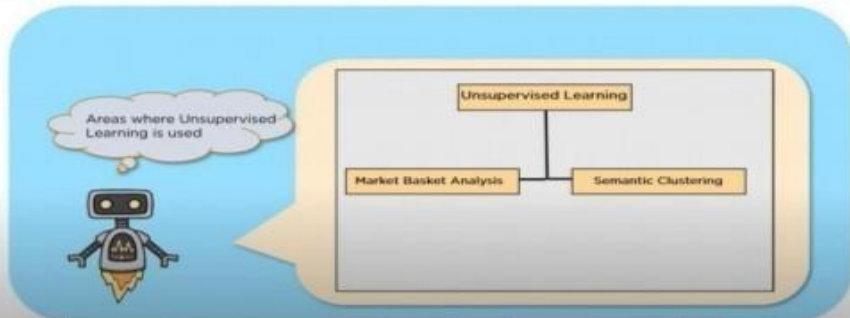


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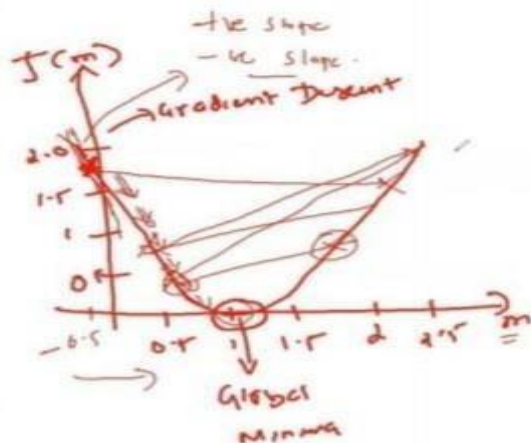
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Convergence theorem

$$m = m - \left(\frac{\partial m}{\partial m} \right) \times \text{slope} \times \text{learning rate}$$

$$m = m - (-ve) \times \text{small}$$

$$= m + (+ve) \text{small}$$



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10	1	2	0
11	1	2	1
12	1	0	0
13	1	0	1
14	1	1	0
15	1	1	1

```

In [10]: from sklearn import tree

In [11]: model = tree.DecisionTreeClassifier()

In [12]: model.fit(inputs_n,target)

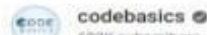
Out[12]: DecisionTreeClassifier(class_weight=None, criterion='gini', max_depth=None,
                                max_features=None, max_leaf_nodes=None,
                                min_impurity_decrease=0.0, min_impurity_split=None,
                                min_samples_leaf=1, min_samples_split=2,
                                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

`/python` = `/python/`
`/flask` ≠ `/flask/`

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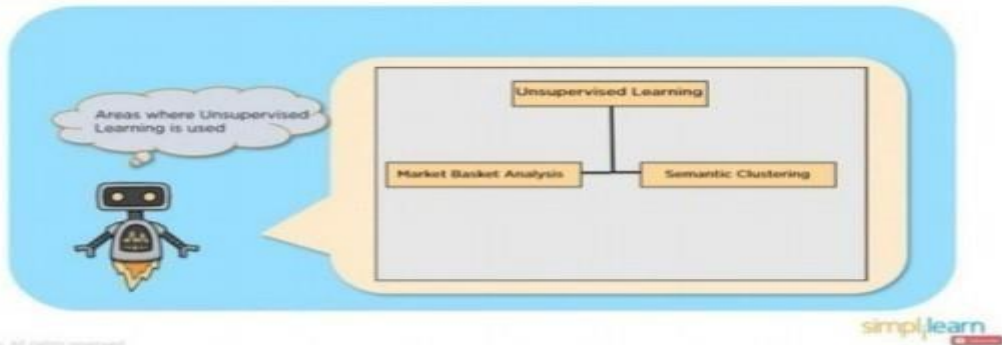
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Convergence theorem

$$m = m - \left(\frac{dm}{dm} \right) \times \text{learning Rate}$$

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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 [13]: model.score(inputs_n,target)
Out[13]: 1.0
In [14]: model.predict([[1, 0, 5]])
Out[14]: array([1], dtype=int64)
```

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Flask – Redirect & Errors



Standardized status codes

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

Prototype



Flask.abort(code)

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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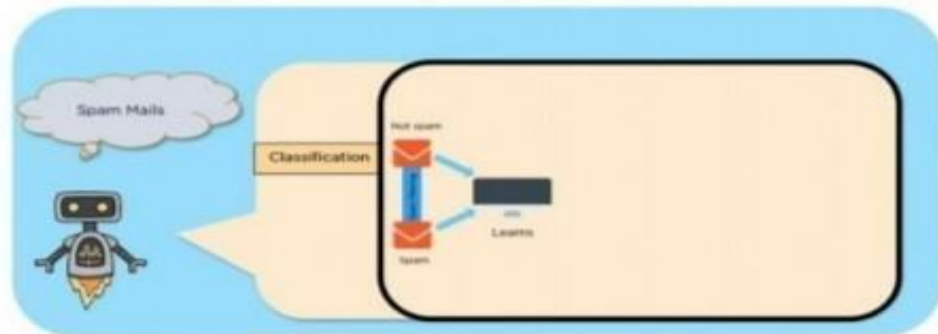
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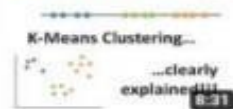
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- Relationship: Height - Weight?



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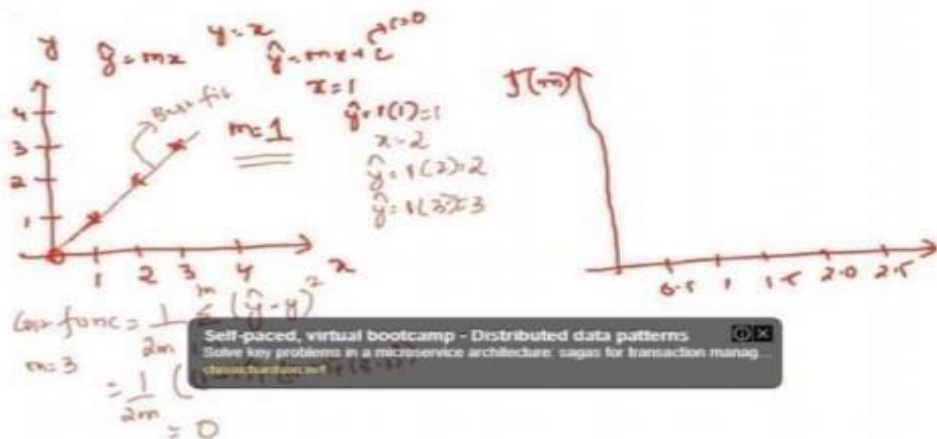
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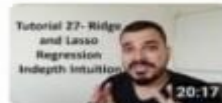


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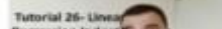
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First we look at the HTML file

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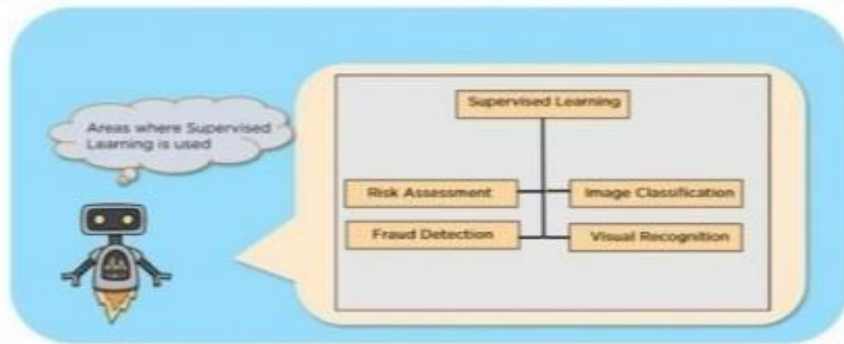
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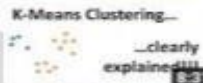
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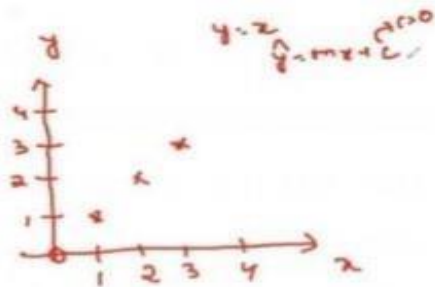
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```
In [1]: import pandas as pd
df = pd.read_csv('salaries.csv')
df.head()
```

Out[1]:

	company	job	degree	salary_norm_then_100k
0	google	data scientist	bachelor	0
1	google	data scientist	master	0
2	google	business manager	bachelor	1
3	google	business manager	master	1
4	google	computer programmer	bachelor	0

```
In [2]: inputs = df[['company', 'salary_norm_then_100k', 'degree', 'experience']]
target = df['salary_norm_then_100k']
```

In [3]: train

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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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