

TEAM ID: PNT2022TMID14136

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

TEAM LEADER

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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**

Machine Learning in R - Classification, Regression and Clustering Problems

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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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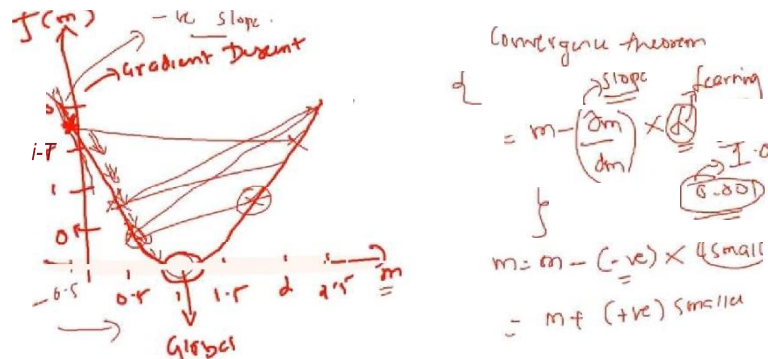
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Flask – Variable Rules

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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Applications of Unsupervised Learning

Areas where Unsupervised Learning is used

```
graph TD
    UL[Unsupervised Learning] --> MBA[Market Basket Analysis]
    UL --> SC[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 [13]: model.score(inputs_n,target)
Out[13]: 1.0

In [14]: model.predict([1,0,1])
Out[14]: array([1], dtype=int64)
  
```

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Flask – Redirect & Errors



Standardized status codes

Flask.a bort(code)

notl

2 HTTP 30t MOVED PE RMANE NTLM
3 HTTP_302_FOUND
4 HTTP 303 SEE OTHER
5 HTTP_304_NOT_MODIFIED
6 HTTP 305 USE PROXY
7 HTTP_306_RESERVED

| n | C | |
|---|-----|------------------------|
| 1 | 400 | Bad Request |
| 2 | 401 | Unarithenticaterl |
| 3 | 403 | F Ctrbidden |
| 4 | 404 | Not Foun d |
| 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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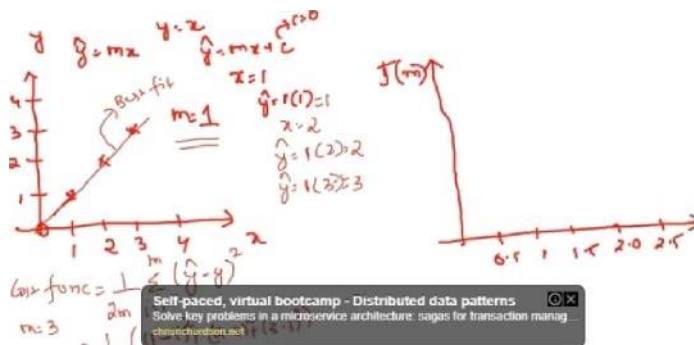
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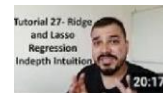
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Applications of Supervised Learning

Areas where Supervised Learning is used

Supervised Learning

- Risk Assessment
- Image Classification
- Fraud Detection
- Visual Recognition

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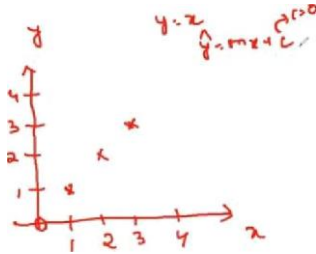
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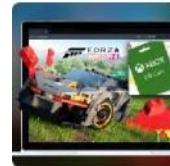
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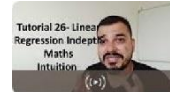
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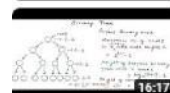
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It is possible to build a URL dynamically!

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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