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PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

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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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Handwritten notes on a graph showing a parabola with a gradient descent path. The y-axis is labeled $f(m)$ and the x-axis is labeled m . The path starts at $m=0$ and moves towards the minimum. The notes include: "Gradient Descent", "Convergence theorem", $m = m - \left(\frac{\partial m}{\partial m}\right) \times \text{Rate}$, $m = m - (-ve) \times \text{small}$, and $m = m + (+ve) \text{ small}$.

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Python 3

```

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

Comparison of URL paths:

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

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Applications of Unsupervised Learning

Areas where Unsupervised Learning is used:

- Market Basket Analysis
- Semantic Clustering

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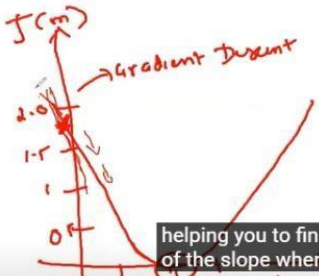
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Flask – Redirect & Errors

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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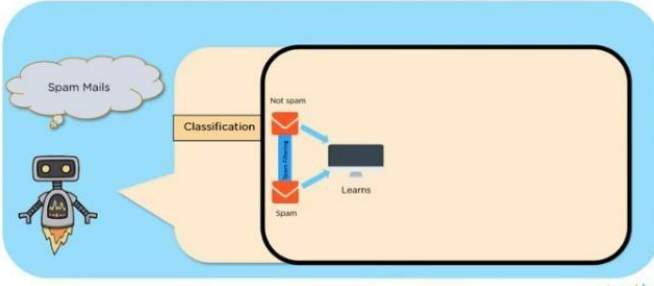
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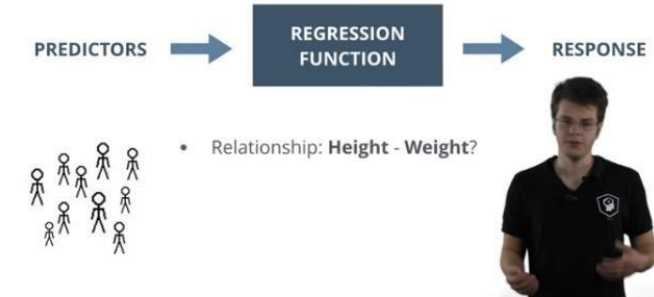
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Flask – HTTP Methods

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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Applications of Supervised Learning

Areas where Supervised Learning is used

Supervised Learning

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

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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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