

TEAM ID: PNT2022TMID45092

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

TEAM LEADER

The screenshot shows a YouTube video player for a DataCamp video titled "Clustering". The video is part of a series on "Introduction to Machine Learning". The video content includes a list of bullet points: "Clustering: grouping objects in clusters", "Similar within cluster", "Dissimilar between clusters", "Example: Grouping similar animal photos", "No labels", and "No right or wrong". A man in a black shirt is visible in the video frame. The video has 587 likes and a "Share" button. The DataCamp logo and "138K subscribers" are visible. The browser tabs show "IBM", "(226) Machine Learning", "(226) Supervised", "IBM-Project-300", "(4) WhatsApp", "Download file | i", and "Downloads". The address bar shows "youtube.com/watch?v=6za9\_mh3uTE".

- **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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The screenshot shows a YouTube video player for a Simplilearn video titled "Applications of Unsupervised Learning". The video content includes a diagram showing "Unsupervised Learning" branching into "Market Basket Analysis" and "Semantic Clustering". A thought bubble says "Areas where Unsupervised Learning is used". The video has a progress bar at 7:56 / 9:39. The Simplilearn logo is visible. The browser tabs show "IBM", "(226) Supervised and", "IBM-Project-30037-1", "(4) WhatsApp", "Download file | iLove", and "Downloads". The address bar shows "youtube.com/watch?v=kE5QZ8G\_78c&t=11s".

### 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 convex function  $J(m)$  versus  $m$ . The graph illustrates the gradient descent process, with arrows indicating the path towards the global minimum. The y-axis is labeled  $J(m)$  and the x-axis is labeled  $m$ . The path starts at  $m = -0.5$  and moves towards the minimum at  $m = 1.5$ . The path is labeled "Gradient Descent" and "Global Minimum".

Handwritten notes on the convergence theorem:

$$m = m - \left( \frac{\partial m}{\partial m} \right) \times \text{Learning Rate} \times \text{Error}$$

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

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

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Python 3

Code

```
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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YouTube video player interface showing a video titled "Applications of Unsupervised Learning". The video content includes a diagram illustrating the areas where unsupervised learning is used.

**Applications of Unsupervised Learning**

Areas where Unsupervised Learning is used:

- Market Basket Analysis
- Semantic Clustering

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# Clustering

- **Clustering:** grouping objects in clusters
  - *Similar* within cluster
  - *Dissimilar* between clusters



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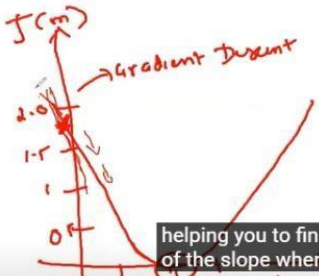
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# Flask – Redirect & Errors

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

1:39 / 35:49

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### Regression

PREDICTORS → REGRESSION FUNCTION → RESPONSE

Relationship: Height - Weight?

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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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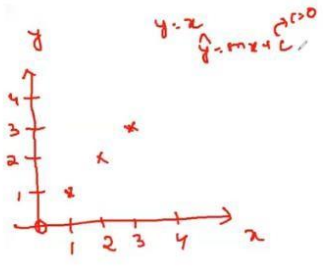
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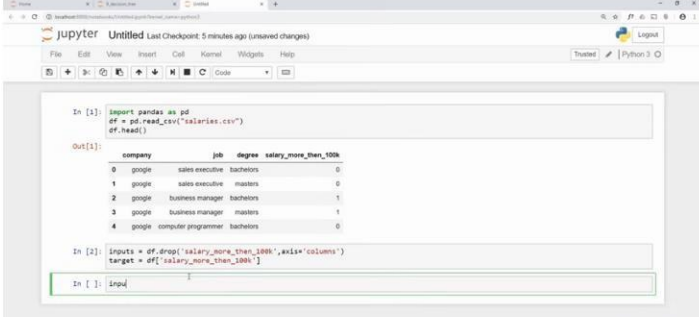
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Flask – Variable Rules



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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