

TEAM ID: PNT2022TMID44529

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

TEAM LEADER

The screenshot shows a YouTube video player interface. The browser's address bar displays the URL `youtube.com/watch?v=6za9_mh3uTE`. The video player features a dark blue header with the DataCamp logo and the text 'Introduction to Machine Learning'. The main content area has a white background with the title 'Clustering' in a large, bold font. Below the title, there is a list of bullet points: 'Clustering: grouping objects in clusters' (with sub-points 'Similar within cluster' and 'Dissimilar between clusters'), and 'Example: Grouping similar animal photos' (with sub-points 'No labels' and 'No right or wrong'). A man in a black shirt is shown in the center of the video frame, gesturing with his hands. Below the video frame, the channel name 'DataCamp' is displayed with a 'Subscribe' button and '138K subscribers'. To the right of the video, there are engagement icons for likes (587), comments, shares, and downloads. On the right side of the player, a vertical list of recommended videos is visible, including 'Data Analysis: Clustering and Classification (Lec. 1, part 1)' by Nathan Kutz, 'Teach me STATISTICS in half an hour!' by zedstatistics, and '11. Introduction to Machine Learning' by MIT OpenCourseWare. The Windows taskbar at the bottom shows the system clock as 12:46 on 03-11-2022.

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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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Convergence theorem

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

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

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

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YouTube video player showing a Jupyter Notebook titled "Machine Learning Tutorial Python - 9 Decision Tree". The notebook displays a dataset and the implementation of a Decision Tree Classifier using sklearn.

Dataset:

	0	1	2
9	0	0	1
10	1	2	0
11	1	2	1
12	1	0	0
13	1	0	1
14	1	1	0
15	1	1	1

Code Snippets:

```
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)
```

Video Details: Machine Learning Tutorial Python - 9 Decision Tree | codebasics | 4.7K likes | 271K views | 3 years ago

YouTube video player showing a Flask tutorial titled "Flask - Variable Rules". The video explains how to use Flask's routing system with variable rules.

Code Snippet:

```
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()
```

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Applications of Unsupervised Learning

```

graph TD
    A[Unsupervised Learning] --> B[Market Basket Analysis]
    A --> C[Semantic Clustering]
  
```

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5:18 / 6:39 • Applications of Regression >

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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([[0.0, 1]])
Out[14]: array([1], dtype=int64)

```

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Flask – Redirect & Errors



Standardized status codes

Prototype \Rightarrow `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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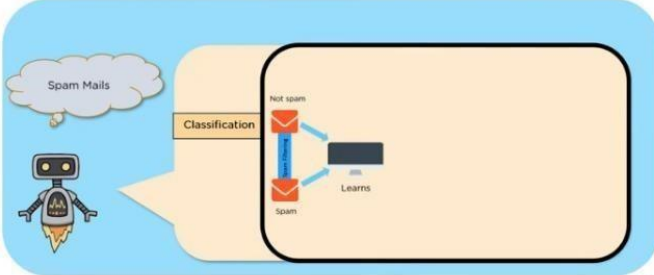
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Relationship: Height - Weight?

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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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Areas where Supervised Learning is used

```
graph TD
    SL[Supervised Learning] --> RA[Risk Assessment]
    SL --> IC[Image Classification]
    SL --> FD[Fraud Detection]
    SL --> VR[Visual Recognition]
```

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