

Python Full Stack

21 Jan

`python -m venv LPU` → To create a virtual environment

`.\LPU\bin\activate` → To activate the environment

`deactivate` → to deactivate the environment

`rm -r LPU` - > to remove directory recursively, all the file & sub folders

`mv oldname newname` → To rename the Folder

'm' → stands for message

'venv' → virtual environment

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Wider Range → Class

Derived → Objects

Animals → Class

Lion, Tiger → Objects

'.' → Location, LEKE AAO

`python filename.py` → To run the file



Supervised Learning → Where we have both input and output. The eq is $y = mx + c$.

UnSupervised Learning → Where we don't have the output. Not label data. The model try to find the pattern.

ReEnforcement Learning → Which tries to learn from the experience. Reward based learning.



Overfitting → Where the model gives alot of accuracy on the training data but fails in testing data.

Underfitting → Which fails at the training data as well as testing data.

TradeOff → Which performs well on training data as well as testing data.

sklearn → warehouse of ML.

PV	
Yes	No
<hr/>	
	TP FN
	Yes
AV	FP TN
	No

PV	
No	Yes
<hr/>	
	TN FP
No	
AV	FN TP
Yes	

AV	
Yes	No
<hr/>	
	TP FP
Yes	
PV	FN TN
No	

AV	
No	Yes
<hr/>	
	TN FN
No	
PV	FP TP
Yes	



Accuracy Score $\rightarrow \frac{TP+TN}{TP+TN+FP+FN}$

Precision $\rightarrow \frac{TP}{TP+FP}$ //Predicted mai kitna sahi predict
kia.

Recall $\rightarrow \frac{TP}{TP+FN}$ //Actual mai kitna sahi predict kia.

F1 Score $\rightarrow 2 * (\frac{Precision * Recall}{Precision + Recall})$

`from sklearn.metrics import confusion_matrix` \rightarrow Classification Matrix

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```
from sklearn.metrics import confusion_matrix
av = ['dog','dog','dog','dog','not_dog','not_dog','not_dog','not_dog']
pv = ['dog','dog','dog','dog','not_dog','not_dog','not_dog','not_dog']
print(confusion_matrix(pv,av))
```

"Transformers in Python" primarily refers to the use of the powerful Hugging Face transformers library, which provides access to thousands of state-of-the-art pre-trained AI models for various tasks



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