

	that and glassing the state of
	Practical Niny 1
	Practical No.1.
	Aim: Loading dataset into keras  pytorch;
	creating toaining & testing epiter
	The state of the s
	Requirements: - Dataset, jupyter Notebook, Libraries. Pandas, Numpy, seikit-leaun.
	This talks a supply and singly had been set to
	Theory:
	The state of the s
•	Deep learning:
	- Deep learning is a subset of machine learning
	that uses autificial neural networks to mimic
	the human brain and solve complex problems.
	widely used in a year like image recognition
	natural language processing autonomous
	vehicles:
	- It consisk of multiple layers
	-Input layer. Accept raw data
	- Hidden layer- Extract meaningful patterns from data.
	- output layer-Provides final prediction or result.
	files a appropriate bab 1900 scillaranes as
4	Dataset.
	Dataset is a collection of data organized in
	tabular form funically consisting of rouse of
	columns where in each rows represents a
	single data instance or observation, while each
	column represent a different feature of the data.
	Trouver of me dourg.

Importance of splitting the dataset. In Dz, it is exential to split the dataset Aim: Lo into separate parts to encure the model's performance is measured accurately. without splitting the data, the model may [] Mana memorize the entire dataset instead of learning general patterns, leading to over filting The data is generally split into. coTraining data-This is the portion of the dataset used to train the model. where 80% of dataset is used to train the model. (2) Testing trata - This part of the dataset is kept separate and only used only after the training that is complete. - It evaluates the models performance or unseen data. - where 20% of dataset is used for Splitting the doutaret allows the model to generalize well and accurately predict on new data.



Conclusion:

Splitting data into training validation, and test sets is exential in deep learning to prevent overfitting and ensure that models generalize well to unseen data.

#10365