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erial. No.	Topic.	Date.	Signatur
1	Exploring the. Deep Learning Platforms & Framewood	a 81/07/2025;	Charles of the same
2	Implement a Classifier using an open-source dotablet		
3	Study of Classifiers with respect to Statistical	7/8/2025	113/8/1
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Jupoter Notebook.

Type: Local; opens source. An interactive esting interface where was is written in cells.

Advantages: Ensy to use. Supports Mankdown and charts. Dortes offline.

Disadrantages:-No kuilt in 4pv unless von configure st; Must manage libraries, drivers.

2. Google Colab.

Allows you to write and execute Python in your browser.

Type: cloud-based Tupyter Notebook.

Advantages:-Free GPU/TPU access Anto-saves. Pre-installed libraries.

Disadvantages:

L'inited GPV session time

Internet connection reg.

Limited customigation compared to local cetup

Blead for: Students, quick prototyping.

Kaggle Kerreli. Allows you to write notebook wing datuset from Kaggle Type: Cloud-based Jupyter Notebook integrated into haggle. Advantages: -Free GPU I-click access to turnsands of public datasets. Disadvantages: Less Alexible than Colab Some libraries may be outdated or require custom install Iteal for Data competition, testing model on benchmante datuet. wil 1

Exploring the Deep Learning Francework.

Deplearing frameworks are software libraries that provide building blocks to create, train and deploy deep newly network. They mandle mathematical operations automatically &

1. Tensor Flow

- Supports both static (graph-based) and eager

or scalable from mobile devices to large clusters.

_ offers took the TensorBoard (visualization), TF hits.

Language: Python, C++, Java script

use cases

- Industry grade application, mobile A1.

-> Uses dynamic graph computation graphs.

-> Pythonic and beginner mierally,

-> Supports distributed training.

-> Pressend in research and bacademic.

Use Cases:

Research experiments, quick prototyping

3. Kerns

- Developed by francois Challet.

-High-level API built on top of Tensor flow

-) Simple & intuitive interface.

- Etast model building with fewer thes of

Observation:

All of these platforms are very user friendly and ultimately each of them is marginally different from