

## I. Exploring the DeepLearning Platforms

(i) Platform : Tensorflow

Creator

Organization : Google Brain

Main Features : Scalable, supports static graph and dynamic, strong Production tools like Tensorflow serving and TF Lite.

Popular use cases : Image Classification, NLP, Production deployment

(ii) Platform : Pytorch

Creator : Facebook AI Research (FAIR)

Main Feature :

Dynamic computation graph, Intuitive Pythonic code, great debugging support

Popular use case : Research, NLP, NNE, Computer Vision.

Key differences :

Dynamic graph

Tensorflow :

Key differences :

In tensorflow (v1), first

we must build the entire model before running it - called as staticgraph and it

(iii) Platform : Google Colab

Creator : Google Research

Main features : Free cloud-based Jupyter notebook with GPU/TPU support

Popular use cases : Quick prototyping, deep learning training without local setup

Key differences :

Google Colab runs in a browser, so there's no need to install anything and it is ideal for sharing notebook online.

(iv) Platform : Jupyter Notebook

Creator : Project Jupyter

Main features : Interactive notebook interface, supports many languages

Popular use cases : Data Analysis, ML Experiments, Visualization.

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Result : Explored various deep learning Platform.