1. Exploring the Deeplearning platforms (i) platform: Tensorflow Creator ! Grougle Brain Main Peatures: Scalable, supports static graph and organization dynamic, strong Production tools like Tensor Flow serving and TFLite Popular Use cases: Image classification, NLP. Production deployment (ii) Platform : Pytorch : Facbook AI Research (FAIR) Creator Main Features Dynamic Computation graph, intuitive Pythonic Code, great debugging support Popular use Cases: Research, NLP, GANSS, Computer Key differences: Dynamic graph (also called as define-by-ru means the model is built as code runs (more flexible for reasearches to try new ideas) Tensor flow: Key differences:

In tensor flow (xi) first we must build the entire model before running it - called as static graph and it is harder to debug. In Tensor Flow (Uz), code runs it is harder to debug. In Tensor Flow (Uz), code runs step by step with dynamic behaviour, it is easily undertakened by step with dynamic behaviour.

(iii) Platform : Google Colab

Creator : Google Research

Main Features: Free Cloud - based supyter notebook

with GIPU I TPU Support

Popular ux cases: Quick prototyping, deep learning

training without local situp

Key differences :

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

: Jupyter Notebook (iv) Platform

: Project Tupyter Creator

Main Peatures: Interactive notebook interface, support

many languages Via Kerrel

Popular use cases: Data analysis, ML experiments,

Visualization

Key differences

Jupyter Motebook runs on our local machine, rying that Control Over files & resources. It is highly

Curtomizable.

Result: Explored Various deep learning Platform