Various deep learning platforms.
Google colab:

Tole online jupyter Notebook with GPU/TPU.

Ideal for Students, researches, hobbyists

Accessible with google Account!

Jupytor Notebook in me rat Igh curs

Coding environment.

Combines codes, markdown, outputs.

popular for exploration visualization
testorials:

into the contact of the monogen of the contact of the monogen of the contact of the

Jupyter Notebook.

Jupyter, Nobebook Groogle Colab Local/browser-based colab based platformpriquiations. GIPO Harinal Setap Anaconda + Jupyter Built in free GIPO/ installation again TPU Manual file Sharing. Runs in browser. Easy sharing. plin saves to local system. Sayos to google of the constant ainst driver to such thousand in house popular car care

EMMS

Key Framoworks of pytorch, Tensorflow, Keras Tensorflow

creator /organization: 6100gle (2015)

14 Principality 11 -111 -211 101 17

Hain reatures: Scalable across cros, GIPUS
High-performance model training Integrated
Keras API for simplicity visualization via
Tensorboard.

popular use cases: computer vision, NIP, MI

Caupines cares mankdasicorpe put

Organization: Facebook AI Research [FAIR] 2016

Main reatures: Dynamic computational graph

Native pythonic synta strong corputation

Supports

popular use cases:

Resourch and Academic projects

Loss - 60- NLP Models

Take TypamiconA / one one in this

Graph Lype: Dynamic

organization: Initially developed by Francois Chollet, now part of Tensor flow (900912) 2015

Hain features: High level deep learning API, Runs on Tensorflow, Theano an CNTK:

popular use cases:

CNNS

## Graph type

- 1. Tensor flow static
- 2. pyrorch pynamic
- 3. Keras Abstracted
- 4. google colab N/A (platform not framework)
- 5. Jupyter Notobook N/A (ZDE interface)

## conclusions:

Exploring different de platforms helped understand their features. Setup t usage. Running basic scripts in Tensorflow & pytorch gave hands on experience with model building.

31/2/25



