## 2022-05-20

## TensorFlow Documentation: Narratives

- ·TensorFlow Sad Story by Zahar Chikishev · Previous experience with Pytorch
  - · Thought it wouldn't be so load given renowned engineering resources & ML expertise
  - · Consensus: poorly maintained, ill-directed, and buggy places of code.
  - · Level. Beginner, "Not an expert"
  - · Installation
    - Nvidia CUDA & CUDANN libraries versions have to match TF version the matching table is hard to find
    - · Dependencies are a constant source of problems
    - . Hard to upgrade to downgrade for expirements
    - · Some libraries are missing
    - tensor flow addons python prekage is reportedly "redundant seperation of code into two pieces"
  - tensorflow-gpu is reportedly "retured"
    but constantly updated
    "Eager executation is a hoax
  - · eager execution is that it often runs slower than graph made
    - · Res Net 50 ( eager execution ) promised comparable performance to H. function but was 5x slower
  - · Hf. data. DataSet API is a mess

· Dissapointing, Promised: per omane improvement, surface le vel inhithe

· must maintain argument types which must be specified explicitly · not explained well in the documentation and you must spend time finding into PI Dublication · API Duplication. · API documentation doesn't moution law level or highlevel ApIs, some developed by third parties, and some are deprecated. implementation 7 2D convolution layor · Hard to determine · correct one to use · what are the differences thenselves but not with others · Sloppy development · Image Data Generaler. · Compricales development · Sequence data API · not even called. · GPU manory management in TF is bad · TF training logs a lungs contain several obscure warning massages · model predict () function reals KAM money "Tensorflow and Story" by Ygor serpa. User seems like an expert · Ease of installation \* Colab is free Anneonda pre prekages renortion & dependencicies Cloud providers pre packages it along with · agree with Nudia Issue in beginner

- · The author explained that the "addons Package" complaint was a minor in convenience.
- · The reason everything is not included together because its easier to have a basic package and add speculicas time goes on
- · Eager is a hoas Debugging is naturally a slower process so when having eager made on will make on home slower

The Data API

- · agree with other author
  · rus on a cru C++ backend
  · issue is in incompatitbility resulting
  - to from:
    - python is not parallelizable
    - · crt code rurs freely. over all
    - · nuning any external Python code

API Duplication.
The duplication is necessary to

help with updating

Sloppy Perelapment - all true & agracing

Home for Fighion B bg - intermediate level of programming -Beginner for machinelaring -implementation is not standard and there self direction - time consuming to got good verilts This example was imag to text with TensorFon Tensorflow documentation - Tutorial ·Tutorials are available on tensor How.org - under beginner & experts - Beginner quick start - keras basic - 10ad data -under experts - advance quick stort - customization -distributed training - those are tutoral videos and tensorflow has yatube channel -playlists are used to organize videos - There appears to be a boginnel - Also an extended version for advanced.

have · Generally many youthours videos on tensorflow - Many are labelled on specific topics - Not many ave labelled for advance people - Contrarily, many are labelled for beginners Many come on series form - Tuto n'ais ure comprehensive run downs. ranging from 10 minutes to about 1.5 hrs - Most of the sample I viewed Was in Python and some are offered in javascript. -C++ is an honourable mention - deep learning & keras are frequently used words in search results Tousor flow downentat: translation · Tensor flow : daneutation on tensorflow.org is available in many common languages but doesn't cater · The Journantations youtube channel offers broad in Some learning es

non-Afficial - Although there are plenty of Channels & voleos. \* Beginner - USES more example & elaborate explantion
Uses none steps, uses different cooke experts.

Agricults. makes assumptions and uses direct terminology - has more customization. Flesch-kincaid readibity test in Fython -all metric pronde à score atmbite. - individual metrics proude additional properties to hereased harpore tobilty a ssessing the difficulty of technical money -common wealth of pennsyrania uses the grade level browny automobile thour tests are ho higher than 9th grade lene - Flegrade level to score legal document such as busines poincies It Ahancial Ams

Flesch Ready ease. -> score from 0-100 -us pert of defence was the Reading test as the standard kit of readibity for it documents 3 6/ms.

- Florida requires flet like insurance have a Flasch Reading Ease score of 45 or grater score Difficuty 90-100 V easy eary 80-89 fairly casy 70-79 Standard. 60-69 50-59

Fairy difficult

di Pricult

30-49

very confusing 0-29 grade Flesch - Khaid Grade Level - Returns the FK grade of the

given text. This is a grade formula in that a score of 9.3 mais that a ninth grader would