FastEstimator

Two Worlds in One

A new multi-framework approach

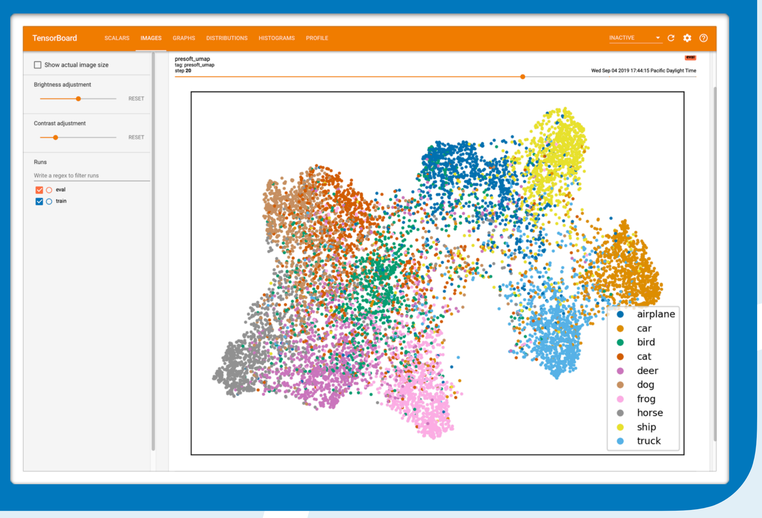
The speed you love, now with a flexible and performant pythonic workflow

Make your life easier with ready-made modules, without forsaking flexibility

Pre-Bundled Power

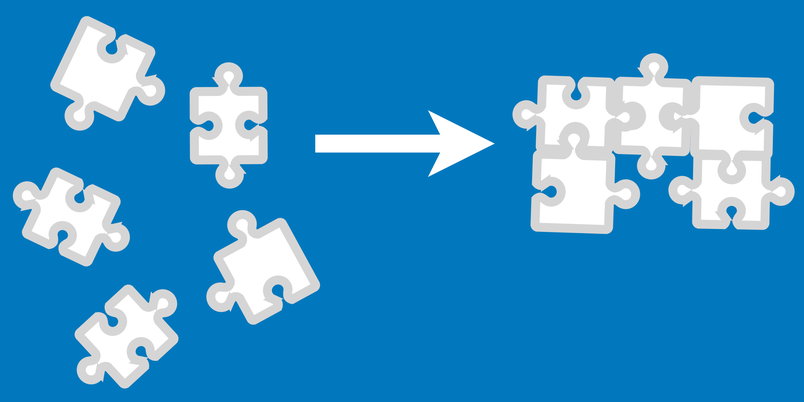
Ready-made modular components

- ✳ Adversarial Hardening
- ✳ Advanced Augmentation
- ✳ Dynamic Scheduling
- ✳ Summarization
- ✳ LR Controllers
- ✳ XAI



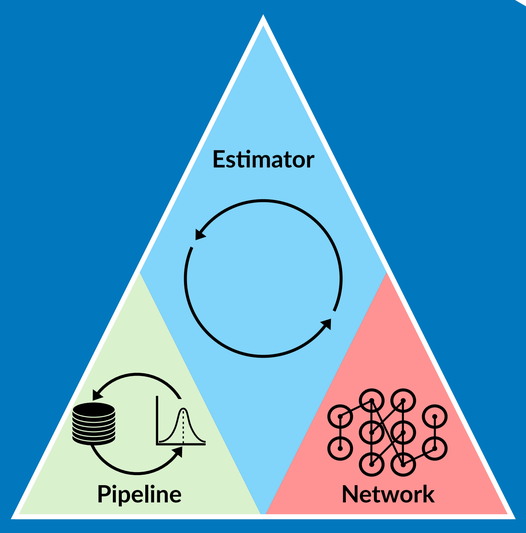
AppHub

SOTA solutions, all in one place



Easy as 1, 2, 3

Deep Learning in 3 APIs



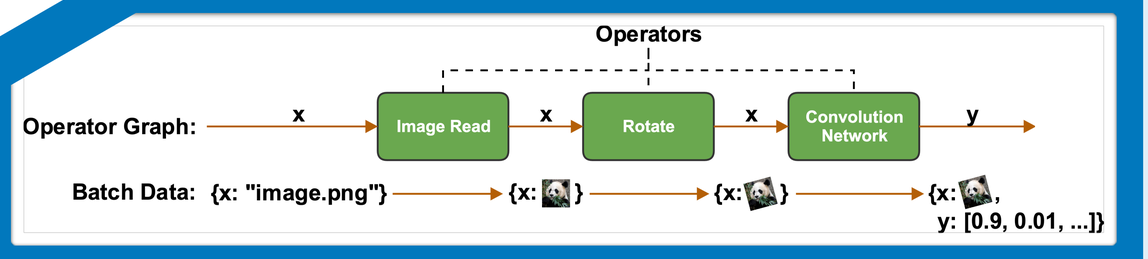
Less coding, more creating

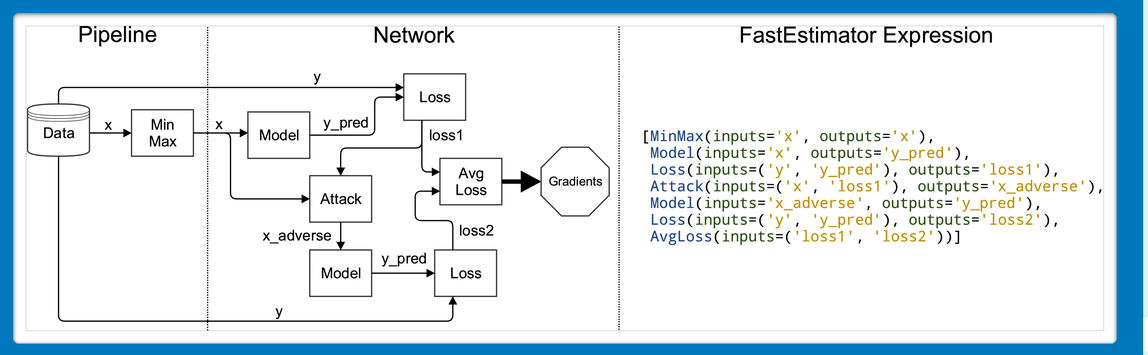
	Cycle-GAN [1]	PG-GAN [2]
arXiv	≈2700 Lines [3]	≈5000 Lines [4]
K	≈1100 Lines [5]	N/A
FastEstimator	≈300 Lines [6]	≈500 Lines [6]

Flex Your Net

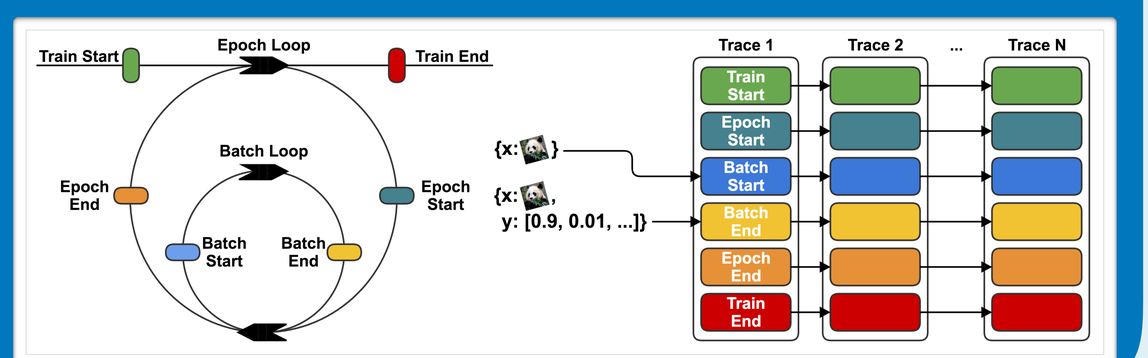
Operators construct workflows, Traces control training

Operator





Trace



GE Healthcare

- ✳ Xiaomeng Dong
- ✳ Junpyo Hong
- ✳ Hsi-Ming Chang
- ✳ Michael Potter
- ✳ Aritra Chowdhury
- ✳ Purujit Bahl
- ✳ Vivek Soni
- ✳ Yun-Chan Tsai
- ✳ Rajesh Tamada
- ✳ Gaurav Kumar
- ✳ Caroline Favart
- ✳ V. Ratna Saripalli
- ✳ Gopal Avinash

References:

1. https://arxiv.org/abs/1703.10593
2. https://arxiv.org/abs/1710.10196
3. https://github.com/junyanz/pytorch-CycleGAN-and-pix2pix
4. https://github.com/tkarras/progressive_growing_of_gans
5. https://github.com/simontomaskarlsson/CycleGAN-Keras
6. https://github.com/fastestimator/fastestimator
7. https://www.tensorflow.org
8. https://pytorch.org
9. https://keras.io

Make your next estimator a FastEstimator