

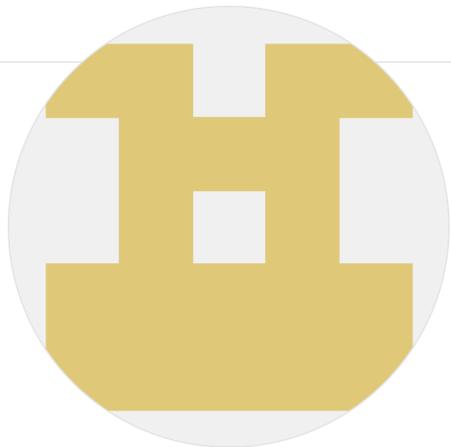


BUILDING RECOMMENDER SYSTEMS WITH PYTORCH

KDD 2020 | TUTORIAL

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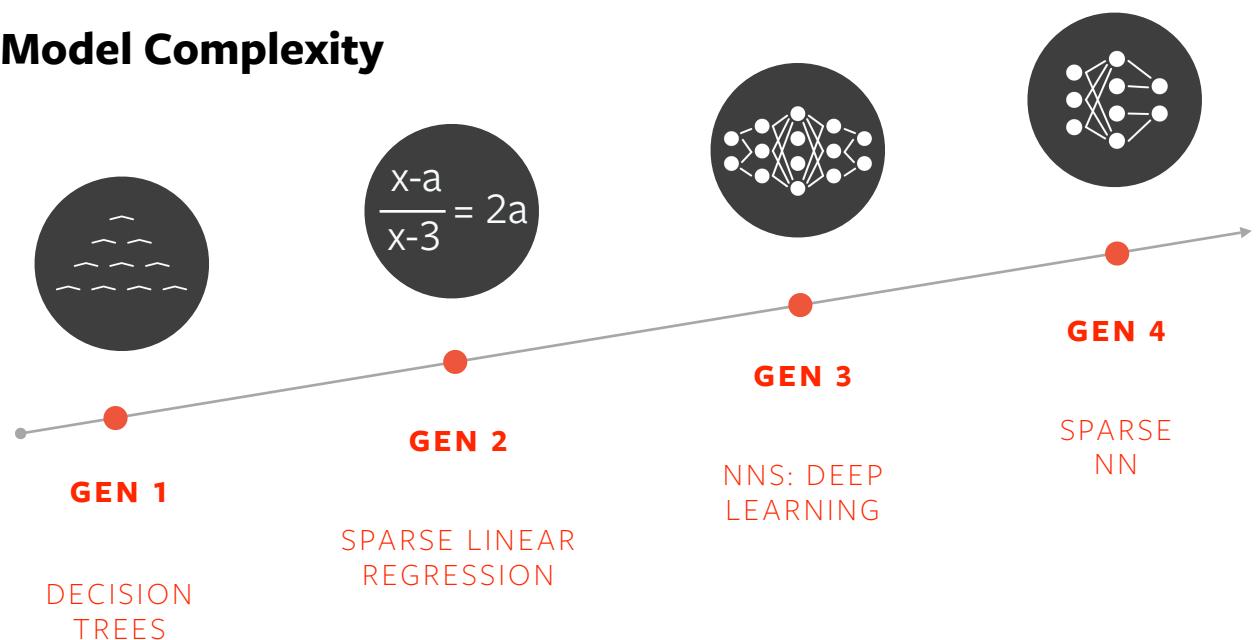
MOTIVATIONS

- Ranking algorithms underpin applications such as search & personalization
- These models are different than traditional DNNs in that they use building blocks such as sparse features and embeddings.

1 IDEAS ARE GETTING
MORE COMPLEX

2 MODELS ARE GETTING
MORE COMPLEX

Model Complexity





DEEP LEARNING RECOMMENDATION MODEL(DLRM)

- A model composed of dense and sparse features purpose-built for large scale recommender systems.
- The standard recommender system benchmark for MLPerf training

The screenshot shows a web browser with two GitHub repository pages side-by-side.

Left Repository: github.com/mlperf/training/tree/master/recommendation

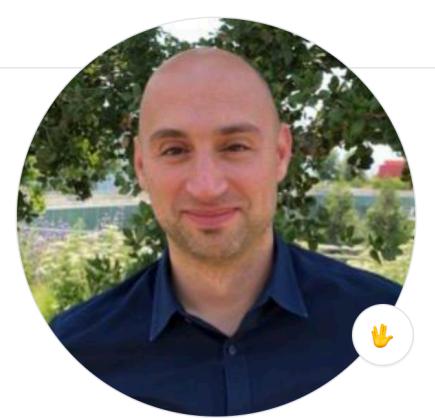
- Owner: mlperf / training
- Branch: master
- Issues: 118
- Pull requests: 2
- Last commit: mnaumovfb Updating DLRM (logging, part 2) (#35) - 21d0078 15 days ago
- Files listed: dirm @ c378da2, pytorch, download_dataset.sh, verify_dataset.sh

Right Repository: github.com/facebookresearch/dlrm

- Owner: facebookresearch / dlrm
- Branch: master
- Issues: 1
- Pull requests: 2
- Actions, Projects, Security, Insights tabs available
- Commits listed:
 - mnaumovfb Fixing saving of model protobuf with types and shapes in caffe2 v... - 21d0078 15 days ago (85 commits)
 - Tgrel/minor mlperf fixes (#54) - 5 months ago
 - Adding sub-sampling option, fixing inconsistencies in temporary fi... - 9 months ago
 - initial commit of dlrm files - 14 months ago
 - Refactoring dataset loaders. - 10 months ago
 - latest updates, 2020-06-27 (#103) - 22 days ago
 - Mixed Bugfixes (#87) - last month
 - Added gitignore from <https://github.com/github/gitignore/blob/main/dlrm.gitignore> - last month
- About section: An implementation of a deep learning recommendation model (DLRM)
- Readme, MIT License links
- Releases: No releases published
- Contributors: 16

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NEXT | WHAT IS PYTORCH?



A circular portrait of a man with short dark hair, wearing a dark blue button-down shirt. He is smiling at the camera. In the bottom right corner of the portrait, there is a small white circle containing a yellow hand icon.

Joseph Spisak
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A circular portrait of a woman with short, multi-colored hair (blue, red, yellow) styled in a bob. She has a warm, smiling expression. The background of the portrait is a textured, colorful pattern.

Geeta Chauhan
chauhang