NeuroMapper

IN-BROWSER VISUALIZER FOR NEURAL NETWORK TRAINING

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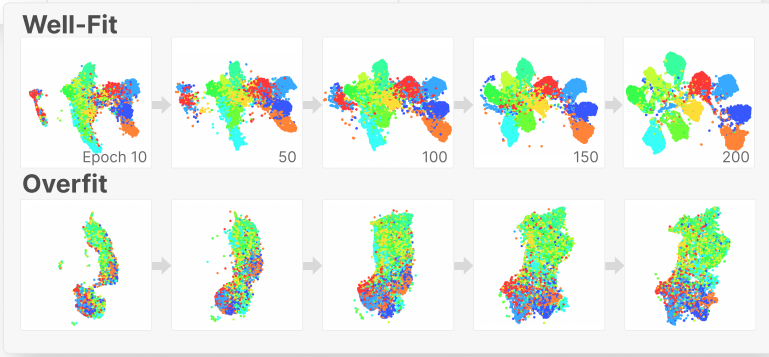
NeuroMapper helps machine learning developers interpret the **evolution** of a model **during training**.

Try it at poloclub.github.io/neuromapper

NeuroMapper runs on all modern browsers.



4th residual block of ResNet-50 trained on CIFAR10:

- Well-fit: clear separation between classes
- Overfit: no clear separations

Visualize Model Evolution

- Embeddings of model's intermediate output across training epochs aligned using **AlignedUMAP**
- **Real-time** adjustable AlignedUMAP hyperparameters

Scalable Interactive Rendering

Using WebGL, NeuroMapper scalse to 40,000 embedding points in real time

New way to monitor training

- Interpret how a well model is trained by visualizing evolution of data representation