



Introduction to Deep Learning

Video 5: Following the “Framework”

Deep Learning Frameworks



- **Benefits:** Makes coding neural networks simpler.
- **Design:** GPUs/TPUs for accelerated computations
- **Comprehensive toolkits:** From neural layers to optimizers

Deep Learning Frameworks



Designed for scalability: Managing large datasets with ease



Updates: Ensuring users stay up-to-date with the latest features

Types of Deep Learning Frameworks



Created by Google in 2015 and is packed with tools and resources for both ML and DL models.

Types of Deep Learning Frameworks



Created by Facebook in 2017, popular for tasks such as Computer Vision (CV) and Natural Language Processing (NLP)

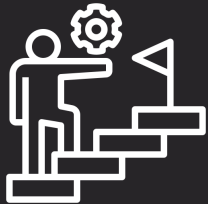


PyTorch 2.0 to build Deep Learning Models

Why PyTorch 2.0?



Great choice for **Deep Learning projects..**

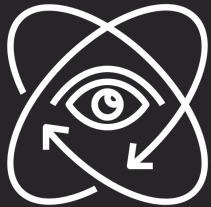


Improved performance & ability to handle larger, more complex models.

Why PyTorch 2.0?



Straightforward and User-Interface interface; suitable for beginners and experts.



Features an **extensive suite of tools and libraries** like TorchVision(CV) and TorchText (NLP).



Active development, **regular updates and troubleshooting** support for the community.

In Air