List of deep learning pre-trained models categorized by type, along with links to more information about each:

Image Classification

VGG16: A classic model known for its simplicity and effectiveness.

VGG16 in TensorFlow

ResNet50: Known for its residual connections that help alleviate the vanishing gradient problem.

ResNet50 in PyTorch

InceptionV3: Efficient model with a balance of accuracy and computational cost.

InceptionV3 in TensorFlow

Object Detection

YOLOv3: Real-time object detection model.

YOLOv3 in PyTorch

Faster R-CNN: Combines region proposal networks with fast R-CNN.

Faster R-CNN in TensorFlow

Natural Language Processing (NLP)

BERT: Bidirectional Encoder Representations from Transformers, great for various NLP tasks.

BERT in PyTorch

GPT-3: Generative Pre-trained Transformer, known for its text generation capabilities.

GPT-3 Overview

Generative Models

GANs (Generative Adversarial Networks): Used for generating realistic images.

GANs Overview

VAE (Variational Autoencoders): Useful for generating new data samples.

VAE Overview

Reinforcement Learning

DQN (Deep Q-Network): Combines Q-learning with deep neural networks.

DQN Overview

PPO (Proximal Policy Optimization): Balances exploration and exploitation in reinforcement learning.

PPO Overview