Best ML Models For

All ML Tasks



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- Image Classification: ResNet-50 (Deep Residual Network) Achieves state-ofthe-art performance on ImageNet dataset.
- Object Detection: YOLOv4 (You Only Look Once) Fast and accurate object detection model, widely used in self-driving cars, surveillance, and more.
- Natural Language Processing (NLP) Text Classification: BERT (Bidirectional Encoder Representations from Transformers) - State-of-the-art language model for text classification, sentiment analysis, and question-answering tasks.
- Speech Recognition: WaveNet A deep neural network that generates raw audio waveforms, achieving state-of-the-art performance in speech recognition tasks.
- Recommendation Systems: Neural Collaborative Filtering (NCF) A neural network-based model that combines the strengths of collaborative filtering and deep learning for personalized recommendations.
- Time Series Forecasting: LSTM (Long Short-Term Memory) Networks A type of recurrent neural network (RNN) well-suited for modeling temporal dependencies in time series data.
- Sentiment Analysis: RoBERTa (Robustly Optimized BERT Pretraining Approach) - A variant of BERT that achieves state-of-the-art results in sentiment analysis tasks.
- Question Answering: BERT-based QA models Fine-tuned BERT models have achieved state-of-the-art results in question answering tasks, such as SQuAD and TriviaQA.
- Generative Models Image Generation: StyleGAN (Style-Based Generator Architecture) - A state-of-the-art generative model for generating high-quality, diverse, and realistic images.
- Reinforcement Learning Game Playing: AlphaZero A deep reinforcement learning model that has achieved superhuman performance in games like chess, shogi, and Go.
- Anomaly Detection: One-Class SVM (Support Vector Machine) A popular algorithm for anomaly detection, which can be used for identifying outliers in datasets
- datasets.

 12. Graph Neural Networks Node Classification: Graph Attention Network (GAT)

 A graph neural network model that uses attention mechanisms to classify nodes in graph-structured data.