50 Common Deep Learning-Related Algorithms

These 50 common deep learning-related algorithms and models cover various aspects of the deep learning field, including image processing, natural language processing, and reinforcement learning. Depending on specific tasks and requirements, you can choose the appropriate algorithms and models to solve your problems.

1. Multi-Layer Perceptron (MLP)
2. Convolutional Neural Networks (CNN)
3. Recurrent Neural Networks (RNN)
4. Long Short-Term Memory (LSTM)
5. Gated Recurrent Unit (GRU)
6. Autoencoders
7. Generative Adversarial Networks (GAN)
8. Variational Autoencoders (VAE)
9. Siamese Networks
10. Deep Belief Networks (DBN)
11. Convolutional Autoencoders
12. Generative Adversarial Networks (GAN)
13. Recurrent GAN (R-GAN)
14. Conditional GAN (cGAN)
15. Adversarial Autoencoder (AAE)
16. Style Transfer Networks
17. Attention Mechanism
18. Deep Reinforcement Learning
19. Deep Q-Network (DQN)
20. Markov Decision Process (MDP)
21. Markov Chain Monte Carlo (MCMC)
22. Bidirectional Recurrent Neural Networks
23. Self-Attention Model
24. Semi-Supervised Learning
25. Transfer Learning
26. Adversarial Transfer Learning
27. Deep Residual Networks (ResNet)
28. Dilated Convolutional Neural Networks
29. Variational Autoencoders (VAE)
30. Training Deep Neural Networks
31. Graph Neural Networks (GNN)
32. Self-Supervised Learning
33. Self-Supervised Representation Learning
34. Reinforcement Learning with Policy Gradients
35. Pretrained Language Models
36. Deep Generative Models
37. Neural Graph Networks
38. Generative Adversarial Networks (GAN)
39. Neural Machine Translation (NMT)

40. Conversational AI
41. Reinforcement Learning Value Iteration
42. Graph Convolutional Networks (GCN)
43. Sparse Autoencoders
44. Evaluation of Generative Models
45. Image Segmentation Neural Networks
46. Deep Learning Models for Speech Recognition
47. Neural Object Detection
48. Deep Learning Models for Image Generation
49. Deep Learning Models for Image Classification
50. Deep Learning Models for Reinforcement Learning