



CosmiCode

Educating the Next Wave of Tech Pioneers.

Week 4 Tasks

Week 4: Advanced Neural Network Architectures

- Transfer Learning: Implement transfer learning using a pre-trained CNN model (e.g., VGG16, ResNet) on a new dataset.
- Generative Adversarial Networks (GANs): Build a simple GAN to generate synthetic images.
- Autoencoders: Implement an autoencoder for dimensionality reduction or anomaly detection.
- Sequence-to-Sequence (Seq2Seq) Models: Create a Seq2Seq model for tasks like machine translation or text summarization.
- Attention Mechanisms: Integrate attention mechanisms into Seq2Seq models for improved performance.



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