

A person is shown in profile, wearing a VR headset. The background is a vibrant, futuristic scene with glowing blue and yellow light trails and bokeh effects, suggesting a high-tech or virtual environment. The text is overlaid on an orange rounded rectangle in the upper left.

vggnet and resnet

Assignment Questions

- 1. Explain the architecture of VGGNet and ResNet. Compare and contrast their design principles and key components.**
- 2. Discuss the motivation behind the residual connections in ResNet and the implications for training deep neural networks.**
- 3. Examine the trade-offs between VGGNet and ResNet architectures in terms of computational complexity, memory requirements, and performance.**
- 4. Explain how VGGNet and ResNet architectures have been adapted and applied in transfer learning scenarios. Discuss their effectiveness in fine-tuning pre-trained models on new tasks or datasets.**
- 5. Evaluate the performance of VGGNet and ResNet architectures on standard benchmark datasets such as ImageNet. Compare their accuracy, computational complexity, and memory requirements.**