Daily Entry – Week 4

Date: 01 – 05 July, 2024

Day 1: Deep Learning Basics

- Understanding artificial neural networks.
- Concepts like activation functions, loss functions, and backpropagation.

Day 2: Generative Adversarial Networks (GANs)

- Introduction to GANs and how they generate new data.
- Applications like creating realistic images or video game textures.

Day 3: Image Processing

- Using deep learning for tasks like object detection, image classification, and enhancement.
- Hands-on with libraries like TensorFlow/Keras or PyTorch.

Day 4: NLP with Deep Learning

- Tokenization, stemming, and lemmatization.
- Sentiment analysis and language modeling.

Day 5: Generative AI

- Building models to generate text, images, or other data types.
- Examples: Chatbots, image-to-image translation.