

Activation Function

Assignment Questions



- Q1. What is an activation function in the context of artificial neural networks?
- Q2. What are some common types of activation functions used in neural networks?
- Q3. How do activation functions affect the training process and performance of a neural network?
- Q4. How does the sigmoid activation function work? What are its advantages and disadvantages?
- Q5. What is the rectified linear unit (ReLU) activation function? How does it differ from the sigmoid function?
- Q6. What are the benefits of using the ReLU activation function over the sigmoid function?
- Q7. Explain the concept of "leaky ReLU" and how it addresses the vanishing gradient problem.
- Q8. What is the purpose of the softmax activation function? When is it commonly used?
- Q9. What is the hyperbolic tangent (tanh) activation function? How does it compare to the sigmoid function?

Note: Create your assignment in Jupyter notebook and upload it to GitHub & share that uploaded assignment file link through your dashboard. Make sure the repository is public.