Fundamentals of Deep Learning Assignment 1

- 1. What is different between machine learning and deep learning?
- 2. What is perceptron?
- 3. How is deep learning better than machine learning?
- 4. What are some of the most used applications of deep learning (list out)?
- 5. What is the meaning of overfitting?
- 6. What is activation function?
- 7. What are the steps involved in training perceptron in deep learning?
- 8. What is the use of loss function?
- 9. List some of the deep learning framework or tools that we are used?
- 10. What is forward propagation?
- 11. What is backward propagation?
- 12. What are hyper parameters in deep learning?
- 13. How can hyper parameter be trained in neural networks?
- 14. What is the meaning of drop out in deep learning?
- 15. What is called as tensor?
- 16. What are the advantages of using tensor flow?
- 17. List out some of the disadvantages of deep learning?
- 18. List out some of the supervised learning algorithm and unsupervised learning algorithm in deep learning?
- 19. Define sigmoid function and write its equation?
- 20. What is a step function?
- 21. What does a neuron compute?
- 22. Define Relu function and its equation?
- 23. Why do we normalize the input?
- 24. What are the hyper parameters and defines it?
- 25. What is the use of weight and bias in neural networks?
- 26. Define soft max function and write equation?
- 27. List and define the Keras models?
- 28. Comparison of step function sigmoid function, Keras function?
- 29. What is the identity function?
- 30. Find the output of diagram given below y1 and y2 using sigmoid function where x1 = 1 and x2 = 2.

