

**Artificial Intelligence**

**Module 3 and 4 Assignment**

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**Assignment Questions**

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**Tasks to be performed:**

1. What is Tensorflow ? And how is Keras different from it?
2. What are different types of models in Keras? Explain the working of Sequential modeling.
3. Explain the losses in Deep Learning and how are they responsible for model learning?
4. MNIST has been the toy dataset for Deep Learning, but today you will need to design a Neural Network for the Fashion MNIST dataset (can be sourced from keras.datasets.fashion\_mnist).
5. How many hidden layers are required for this dataset?
6. How many neurons per layer work best for the model, explain and generate insights across it.
7. Explain your understanding of overfitting and underfitting in detail. How do you identify and measure overfitting?
8. What is the use of batch size and why is it used in Deep Learning?
9. Using the above problem statement of Fashion MNIST build a NN with different batch sizes and report the accuracy metrics (acc, val acc, loss, val loss) in a sheet?