**Module 6 & Module 7**

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**Topic:** Deep learning Challenges

1. The dataset is from the National Institute of Diabetes and Digestive and Kidney Diseases. The objective of the dataset is to diagnostically predict whether a patient has diabetes using a simple ANN model
2. Build an ANN model to predict whether a customer will churn or not. Use the attached dataset (Churn\_Modelling.csv)
3. Build a ANN classification model to predict breast cancer (malignant or benign)
4. If I have a dataset which has images of dogs and cats of size 32x32. I need to predict the output image as a dog or a cat. Fill out the parameters that is used to build a simple ANN model

Input layer should have **32** number of neurons

Output layer should have **2** number of neurons

**Sigmoid or Tanh** activation function is used in the output layer

**Binary Cross Entropy** will be the loss function