**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 a 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 2number of neurons

Sigmoid or tanh activation function is used in the output layer

Binary cross entropy will be the loss function