**Name: Modukuri Sumanth Kumar**

**S/R No.: 17025**

**Tools**

* Tensorflow 2.x
* Keras
* Python 3.x

**Model Configuration**

tf.keras.layers.Dense(512, activation='relu'),  
tf.keras.layers.Dropout(0.2),  
tf.keras.layers.Dense(1024, activation='relu'),  
tf.keras.layers.Dropout(0.2),  
tf.keras.layers.Dense(CLASS\_SIZE, activation='softmax')

**Observation**

This is a basic classification problem of FizzBuzz with 4 classes, training on [101, 1000] & testing on [1, 100].

Points:

* Model with Encoding Base = 2 takes longer to converge than Encoding Base = 3
* Accuracy with 1000 Epochs is 100 % on test data
* Increasing the number of levels in the model did not achieve 100 % accuracy on the test data