Model 1:

tf.keras.layers.Input(shape =(None,7)),

       tf.keras.layers.Dense(128,activation='relu'),

       tf.keras.layers.Dense(256,activation='softplus'),

       tf.keras.layers.Dense(128,activation='softsign'),

       tf.keras.layers.Dense(56,activation='selu'),

       tf.keras.layers.Dense(32,activation='elu'),

       tf.keras.layers.Dense(28,activation='relu'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='gelu'),

       tf.keras.layers.Dense(21,activation='leaky-relu'),

       tf.keras.layers.Dense(1,activation='sigmoid')]

epochs = 300

Epoch 300/300

18/18 [==============================] - 0s 6ms/step - loss: 0.0784 - accuracy: 0.9102 - val\_loss: 0.2669 - val\_accuracy: 0.7105

Model 2:

tf.keras.layers.Input(shape =(None,7)),

       tf.keras.layers.Dense(128,activation='relu'),

       tf.keras.layers.Dense(256,activation='softplus'),

       tf.keras.layers.Dense(128,activation='softsign'),

       tf.keras.layers.Dense(56,activation='selu'),

       tf.keras.layers.Dense(32,activation='elu'),

       tf.keras.layers.Dense(28,activation='relu'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='gelu'),

       tf.keras.layers.Dense(21,activation='leaky-relu'),

       tf.keras.layers.Dense(1,activation='sigmoid')])

epochs = 400

Epoch 400/400

18/18 [==============================] - 0s 6ms/step - loss: 0.0179 - accuracy: 0.9789 - val\_loss: 0.2467 - val\_accuracy: 0.7263

Model 3:

model = tf.keras.models.Sequential([

       tf.keras.layers.Input(shape =(None,7)),

       tf.keras.layers.Dense(128,activation='relu'),

       tf.keras.layers.Dense(256,activation='softplus'),

       tf.keras.layers.Dense(128,activation='softsign'),

       tf.keras.layers.Dense(56,activation='selu'),

       tf.keras.layers.Dense(32,activation='elu'),

       tf.keras.layers.Dense(28,activation='relu'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='gelu'),

       tf.keras.layers.Dense(21,activation='gelu'),

       tf.keras.layers.Dense(21,activation='leaky-relu'),

       tf.keras.layers.Dense(1,activation='sigmoid')])

epochs = 300

Epoch 300/300

18/18 [==============================] - 0s 7ms/step - loss: 0.0521 - accuracy: 0.9313 - val\_loss: 0.2308 - val\_accuracy: 0.7263

Model 3:

model = tf.keras.models.Sequential([

       tf.keras.layers.Input(shape =(None,7)),

       tf.keras.layers.Dense(128,activation='relu'),

       tf.keras.layers.Dense(256,activation='softplus'),

       tf.keras.layers.Dense(128,activation='softsign'),

       tf.keras.layers.Dense(56,activation='selu'),

       tf.keras.layers.Dense(32,activation='elu'),

       tf.keras.layers.Dense(28,activation='relu'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='custom\_activation'),

       tf.keras.layers.Dense(21,activation='gelu'),

       tf.keras.layers.Dense(21,activation='gelu'),

       tf.keras.layers.Dense(21,activation='leaky-relu'),

       tf.keras.layers.Dense(1,activation='sigmoid')])

epochs = 400

Epoch 400/400

18/18 [==============================] - 0s 6ms/step - loss: 0.0280 - accuracy: 0.9665 - val\_loss: 0.2535 - val\_accuracy: 0.7263

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