## **NLP Deliverable Two**

## Below are the links to my code implementation.

Hausa:

https://colab.research.google.com/drive/1V5q0ZKtf08UUwVfA2wCLaGXkqA\_RWYFu#scrollTo=o2Hm JkDNqNpC

Igbo: https://colab.research.google.com/drive/1OHsftDaVINF3YYoFfgflnKrhwE02Dbio

Pidgin English: https://colab.research.google.com/drive/1vowzwpdhdwq76wUeLq6222rRmKItisIK

## Proof that the model is learning.

On the Hausa model, this a snapshot of the model learning after 5 epochs. The accuracy value one the epochs increase as the number of epochs increase showing that the model is learning.

On the Igbo model, this a snapshot of the model learning after 5 epochs. The accuracy value one the epochs increase as the number of epochs increase showing that the model is learning.

On the model Pidgin, this a snapshot of the model learning after 5 epochs. The accuracy value one the epochs increase as the number of epochs increase showing that the model is learning.

```
Epoch 1/5
64/64 [===========] - 8s 70ms/step - loss: 0.7613 - accuracy: 0.6223 - val_loss: 0.7102 - val_accuracy: 0.6390 Epoch 2/5
64/64 [===========] - 2s 34ms/step - loss: 0.7055 - accuracy: 0.6311 - val_loss: 0.6926 - val_accuracy: 0.6390 Epoch 3/5
64/64 [==========] - 1s 19ms/step - loss: 0.6048 - accuracy: 0.7017 - val_loss: 0.6636 - val_accuracy: 0.6702 Epoch 4/5
64/64 [===========] - 1s 13ms/step - loss: 0.4185 - accuracy: 0.8381 - val_loss: 0.7155 - val_accuracy: 0.6907 Epoch 5/5
64/64 [=============] - 1s 13ms/step - loss: 0.2604 - accuracy: 0.9187 - val_loss: 0.8559 - val_accuracy: 0.7044 130/130 [=============] - 1s 3ms/step
```