## Report

Zunira Sajjad Week\_05 Day\_04

## Model Training and Model Evaluation

I'm using LSTM neural network with three layers:

- Embedded layer
- LSTM layer
- Dense layer

## And by using these the results are:

```
print(f"LSIM Model Metrics:'
print(f"Loss: {loss:.4f}")
                                                                                                                                                                                                                             ↑ ↓ ⊕ 目 $ 见
Q
                  print(f"Accuracy: {accuracy:.4f}")
\{x\}
            <ipython-input-54-75cc27f9aebe>:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row_indexer,col_indexer] = value instead
                 See the caveats in the documentation: <a href="https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy_data['sentences'] = data['tokenized_text'].apply(lambda tokens: ' '.join(tokens))
<a href="https://docs.org/data/15cc27f9aebex:9">https://docs.org/data/15cc27f9aebex:9:</a> SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
                  See the caveats in the documentation: <a href="https://gandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy">https://gandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy</a> data['indices'] = data['tokenized_text'].apply(lambda tokens: [word_index[word] for word in tokens if word in word_index])
                                       2135/2135 [====
Epoch 3/3
                                            2135/2135 [=========] - 846s 396ms/step - loss: -1.0773 - accuracy: 0.5381 - val_loss: -0.1145 - val_accuracy: 0.5671 1251/1251 [========] - 15s 12ms/step - loss: -0.1243 - accuracy: 0.5647 LSTM Model Metrics: Loss: -0.1243
                  Accuracy: 0.5647
<>

    □ (26)
```

## LSTM Model Metrices:

• Loss: -0.1243

• Accuracy: 0.5647