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**REG.NO.: 811519104117**

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```

```

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    "from sklearn.preprocessing import LabelEncoder\n",  
    "from keras.models import Model\n",  
    "from keras.layers import LSTM, Activation, Dense, Dropout, Input,  
Embedding\n",  
    "from keras.preprocessing.text import Tokenizer\n",  
    "from keras.preprocessing import sequence\n",  
    "from keras.callbacks import EarlyStopping\n",  
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        "tok.fit_on_texts(X_train)\n",
        "sequences = tok.texts_to_sequences(X_train)\n",
        "sequences_matrix = pad_sequences(sequences,maxlen=max_len)"
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        "    layer = Embedding(max_words,50,input_length=max_len)(inputs)\n",
        "    layer = LSTM(64)(layer)\n",
        "    layer = Dense(256,name='FC1')(layer)\n",
        "    layer = Activation('relu')(layer)\n",
        "    layer = Dropout(0.5)(layer)\n",
        "    layer = Dense(1,name='out_layer')(layer)\n",
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        "    model = Model(inputs=inputs,outputs=layer)\n",
        "    return model"
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                "Epoch 2/10\n",
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