

Text Generation Project

Introduction: In text generation, we show the model many training examples so it can learn a pattern between the input and output. It generated some meaningful output based on the input. We need to show the model as many examples as our memory can handle in order to make reasonable predictions. This project was been done for Artificial Intelligence Course offered by MyCaptain.

TensorFlow : TensorFlow is one of the most commonly used machine learning libraries in Python, specializing in the creation of deep neural networks. Deep neural networks excel at tasks like image recognition and recognizing patterns in speech.

Keras : Keras is an application programming interface or API. Keras makes use of TensorFlow's functions and abilities, but it streamlines the implementation of TensorFlow functions, making building a neural network much simpler and easier.

Natural Language Processing : Natural Language Processing (NLP) is exactly what it sounds like, the techniques used to enable computers to understand natural human language, rather than having to interface with people through programming languages. Natural language processing is necessary for tasks like the classification of word documents or the creation of a chatbot.

Data : I have used frankenstein text data for training my model which is largely used for text generation projects.

Source : <https://www.kaggle.com/datasets/prasadposture121/frankenstein>

Conclusion : From the output one can conclude that, for generating more meaningful output one has to train it for large number of examples.