

Natural Language Processing Lab

Exercise 8:

Application: Machine Translation

Dataset: Download the dataset from

<u>Tamil-English-Dataset/Dataset at master · Ishikahooda/Tamil-English-Dataset · GitHub</u>

English to tamil data (kaggle.com)

Task:

• Develop a model that can translate a Tamil input sentence to English.

• Analyze the impact of various embedding techniques in the translation task.

• Use sequence model to translate the Tamil input sentence and analyze the performance of various techniques.

• Translate the input sentences using Transformer model and understand its functioning.

• Translate the following Tamil Phrase and evaluate your model based on the expected output.

Input 1: நான் மிகவும் சந்தோஷமாக இருக்கிறேன்

Expected Output: Im so happy

Input 2: அது அவசியமில்லை Expected Output: It wasnt necessary

Input 3: தயவுசெய்து அதை மீண்டும் செய்யவும்

Expected Output: Please do that again

Input 4: அது ஒரு நல்ல யோசனை

Expected Output: That is a good idea

Input 5: அவர்கள் ஒன்றாக வேலை செய்ய ஒப்புக்கொண்டனர்

Expected Output: They agreed to work together