

Image Caption Generation

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Introduction

Image caption generation is a task that involves Computer Vision and Natural Language Processing concepts to recognize the context of an image and describe it in a natural language like English.

Dataset - Flickr8k

- It consists of 8000 unique images with five different captions.
- Kaggle link
<https://www.kaggle.com/shadabhussain/flickr8k/>

Libraries

- numpy
- pandas
- NLTK
- Tensorflow
- Keras
- CV2

Approach

- Data collection and preprocessing
- Extract the feature vector from all images
- Tokenizing the vocabulary
- Defining the CNN-RNN model
- Training the model
- Testing the model

Thank You