

IMAGE CAPTION GENERATOR



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OVERVIEW



- NLP can be used in various domain in the industry.
- Here, we are using NLP and ML for generating captions for the images.
- The model predicts the caption to be, for the image.
- Caption generation is a real-life application of Natural Language Processing in which we get the generated text from an image. The generated text is capable of not only describing the contents of the image but also giving a suitable caption to the image.

TOOLS TO BE USED



- VS Code
- Python 3.9.4 (64 Bit)
- Jupyter server: local
- Jupyter Notebook Extension
- NLTK
- VGGI6
- Tkinter
- Dataset : <https://www.kaggle.com/srbhshinde/flickr8k-sau>
- Model VGGI6 : <https://github.com/fchollet/deep-learning-models/blob/master/vgg16.py>

IMPLEMENTATION



- Importing Libraries
- Loading dataset in notebook
- Preliminary Analysis
- Data Preparation
- Cleaning Data
- Tokenizing
- Transforming image to features using model
- Linking text and Image
- Data Splitting and training
- Implementing
- Predicting
- Run Model

RESULTS



- Video Demo :

<https://drive.google.com/file/d/1BCyhQHbJpMzFYIRxHkQMCMsa2GseW0SV/view?userstoinvite=sushilghanekar8111999@gmail.com&ts=609ecc6b>



Thank You !