

PROJECT TOPIC ON
SHOW AND TELL:A NEURAL IMAGE CAPTION GENERATOR

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ABSTRACT

The Project describing the content of an image is a fundamental problem in artificial intelligence that connects computer vision and natural language processing. In this project we present a generative model based on a deep recurrent architecture that combines recent advances in computer vision and machine translation and that can be used to generate natural sentences describing an image. The model is trained to maximize the likelihood of the target description sentence given the training image. Experiments on several datasets show the accuracy of the model and fluency of the language it learns solely from image descriptions. The input is an image and the output is a sentence describing the content of the image. This project is implemented using the Tensorflow Library and allows end-to-end training of both CNN and RNN parts.

FRONT END: Python, Django

BACKEND: Sqlite