

Review of Case Study of Image Caption Generator

Abhijeet A. Karande, Mahesh A. Raut, Swapnil R. Mukare, Samir B. Shaikh, Prof. G. G. Patil

Department of Computer Science Engineering
SVERI's College of Engineering, Pandharpur, India

Abstract: We are very interested in how machines can automatically describe the content of images using human language. In order to gain a deeper insight of this computer vision topic, we decided to implement current state-of-the-art image caption generator Show, attend and tell: Image caption generator with visual attention Our neural network-based image caption generator is implemented in Python powered by Pytorch machine learning library. We have identified three major components in our pipeline: (1) data prepossessing; (2) Convolutional Neural Network (CNN) as an encoder; (3) attention mechanism; We evenly distributed the three components described above among our group and each member has made equal contributions to push the project forward. We have successfully finished the implementation of the all three components. Our implementation of this image caption generator has achieved a very decent accuracy.

Keywords: Image Caption Generator , Machine learning, CNN

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