

README - Task 3: Image Captioning

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Description

This project implements Image Captioning using deep learning techniques. It combines Convolutional Neural Networks (CNNs) for feature extraction and Recurrent Neural Networks (RNNs) for generating captions.

Steps to Run

1. Open the Google Colab notebook. 2. Install dependencies (TensorFlow, Keras, etc.). 3. Load dataset (Flickr8k/Flickr30k/MS COCO). 4. Extract features using a pre-trained CNN (InceptionV3/ResNet). 5. Train the Encoder-Decoder model. 6. Generate captions for test images.

Sample Output



Caption Example: 'A dog is standing on the grass and looking to the side.'