

Ideation Phase

Empathize & Discover

Date: 29 October 2023

Project Name Project - Image Caption Generation

Project Description:

In this project, we aim to create captions for images using deep learning techniques. This involves teaching a computer to understand the content of an image and describe it in human-readable language. To achieve this, we'll leverage Convolutional Neural Networks (CNN) and Long Short-Term Memory (LSTM) networks. While humans find image captioning easy, it's a challenging task for computers. The key is to combine the power of CNNs, which excel at image processing, with LSTMs, which are effective in understanding sequences and generating natural language. The project will require substantial datasets and computing power, considering the growing capabilities of deep learning techniques. Through Python, we'll implement and train models that can analyze images and generate descriptive captions. This fusion of CNN and RNN (LSTM) will enable the computer to comprehend visual content and express it in a language that humans can understand.

Empathy Map

Image Caption Generation

