

Ideation Phase

Brainstorm & Idea Prioritization


Date: 18 October 2023

Project Name Project - Image Caption Generation

Project Description:

An image caption description is a written caption that explains the important details of a picture. It involves generating a human readable textual description given an image such as a photograph. For a human it is a very simple task, but for a computer it is extremely difficult since it requires both understanding the content of an image and how to translate this understanding into natural language. In this project we use CNN and LSTM to generate the caption of the image. As the deep learning techniques are growing huge datasets and computer power are helpful to build models that can generate captions for an image. This is what we are going to implement in this Python based project where we will use deep learning techniques like CNN and RNN.

Team Gathering, Collaboration and Select the Problem Statement



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 🕒 10 minutes to prepare
- 🕒 1 hour to collaborate
- 👤 2-8 people recommended

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

A

Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B

Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

C

Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →


1 Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

PROBLEM

How might we Generate Caption From Image?



Key rules of brainstorming

To run a smooth and productive session

🗣️ Stay in topic.

💡 Encourage wild ideas.

🕒 Defer judgment.

👂 Listen to others.

🗣️ Go for volume.

👁️ If possible, be visual.

Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

TIP
You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Manoj

Build a Working model of the image caption generator by using CNN and LSTM units

By Using Flickr8K Data set we can train our model

By knowledge of Python, working on jupyter notebooks, numpy, natural processing

AI Generate Caption for Image

Using Generative AI in the google cloud console

Thimmaraju

CNN and LSTM units we do a work on the model

loading data set for model training with cnn and rnn units

Implementing the ENcoder and Decoder architecture

Varun

for working of model image caption generation we should use CNN unit

For Our training model we should use Flickr8k dataset

In the google cloud console open the generative AI studio for caption generating

AI Tools can be used to generate or improve all text and Caption for Image

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

AI Generate Caption for Image

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Idea Prioritization

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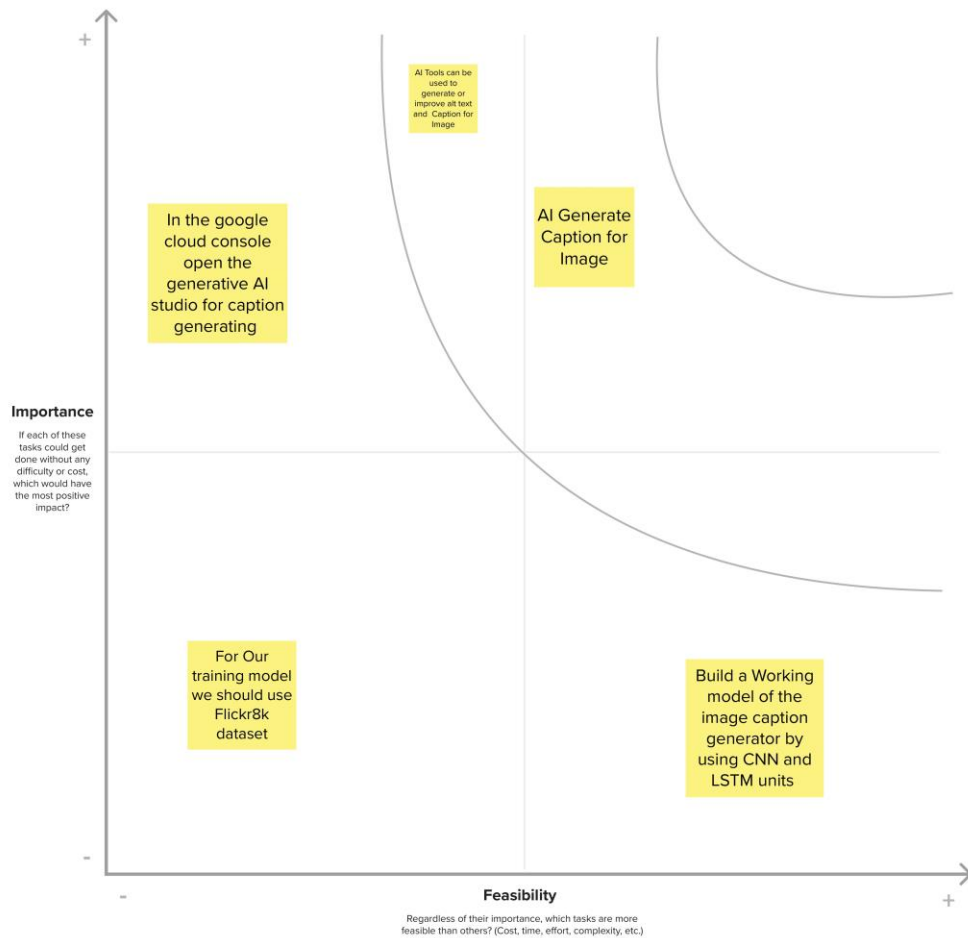
Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.



Team members:

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