

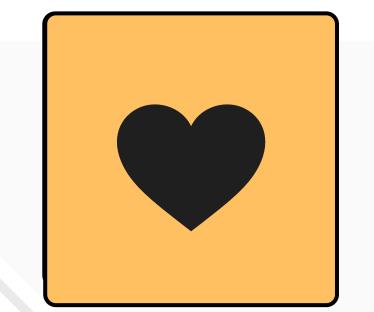
IMAGE CAPTION GENERATOR

The purpose of this project is to develop an image caption generator using Long Short-Term Memory (LSTM), a type of recurrent neural network (RNN) known for its ability to model sequential data. The model takes an input image and generates a descriptive caption that conveys the visual information present in the image. By combining the power of deep learning with natural language processing, we aim to bridge the gap between images and textual descriptions, enabling machines to comprehend and communicate the content of visual data.

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GOALS

- Improve the comprehension and accessibility of visual content for a diverse group of consumers.
- Boost inclusion and content engagement, which will benefit both producers and users.
- Enhance the current level of picture captioning technology for useful and practical uses.
- Determine and seize market and business opportunities
- Increase in relation to the creation of picture captions



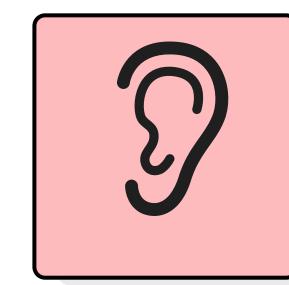
WHO are we empathizing with?

- People with visual impairments
- Content creators
- Al researchers and developers
- Academic Institutes



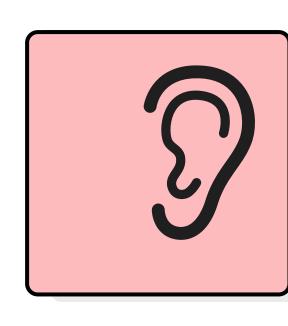
What do they HEAR?

 The image captions for the photo describes everything so vividly!



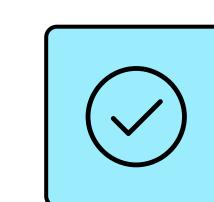
What do they HEAR?

- It's making my posts more popular!
- Adding image caption generation has improved our content.



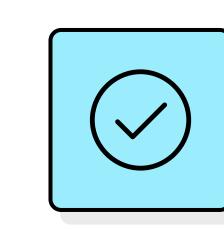
What do they HEAR?

Image caption generation is booming in e-commerce



What do they DO?

 Uses the image caption detector app regularly to access information about their surroundings.



What do they DO?

 Appreciates the app's speed and accuracy in recognizing and describing objects.

What do they THINK and

FEEL?

SEO: It can improve Search

Engine Optimization (SEO)

by generating descriptive alt

text for images on websites.

Continuous Learning: The

trained on, the better it gets

at generating accurate and

Automation: It can automate

captions for large numbers

of images, saving time and

more data the model is

relevant captions.

the task of generating

Education: It can aid in

descriptions for diagrams,

learning by providing

figures, and images in

materials.

textbooks or e-learning

PAINS

Inaccurate Results: If the

image caption generator

frequently provides

captions, it can be

frustrating for users.

Limited Language

Privacy Concerns:

Concerns about the

languages.

Support: Users might be

dissatisfied if the tool only

security of their images or

Legal or Ethical Concerns:

Users may have concerns

about copyright issues or

personal data may be a

significant pain point.

the ethical use of Al

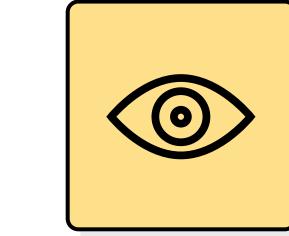
technology.

supports a limited set of

incorrect or irrelevant

What do they need to DO?

- Users of Image Captions: Interact with and use the generated captions to understand image content.
- Content Creators: Integrate image captioning tools into their content and possibly review/edit generated captions.
- Al Researchers and Developers: Continuously improve image captioning models through research, development, and testing.
- Stakeholders and Industry Observers: Assess market trends and stay informed about the impact and opportunities of image caption generation.



What do they SEE?

- Users with visual impairments can understand the content of images on digital platforms.
- Users can get automatic captions for images on social

Image Caption Generator

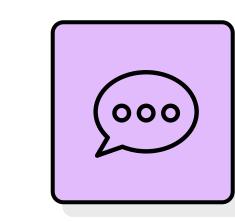
Upload Image

Image Caption:

Generated Caption

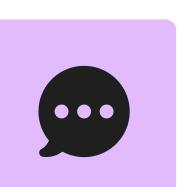
a cat sitting on the ground.

- media platforms, adding context to the images.
 Students can get automatic descriptions for diagrams,
- Students can get automatic descriptions for diagrams, figures, and images in textbooks or e-learning materials.
- Web developers can improve the accessibility of their websites by providing descriptive alt text for images.

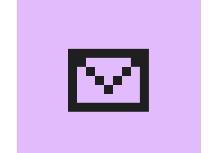


What do they SAY?

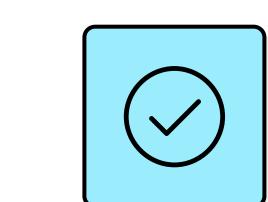
 "I need an app that can describe images for me."



• "The app should work quickly and accurately."

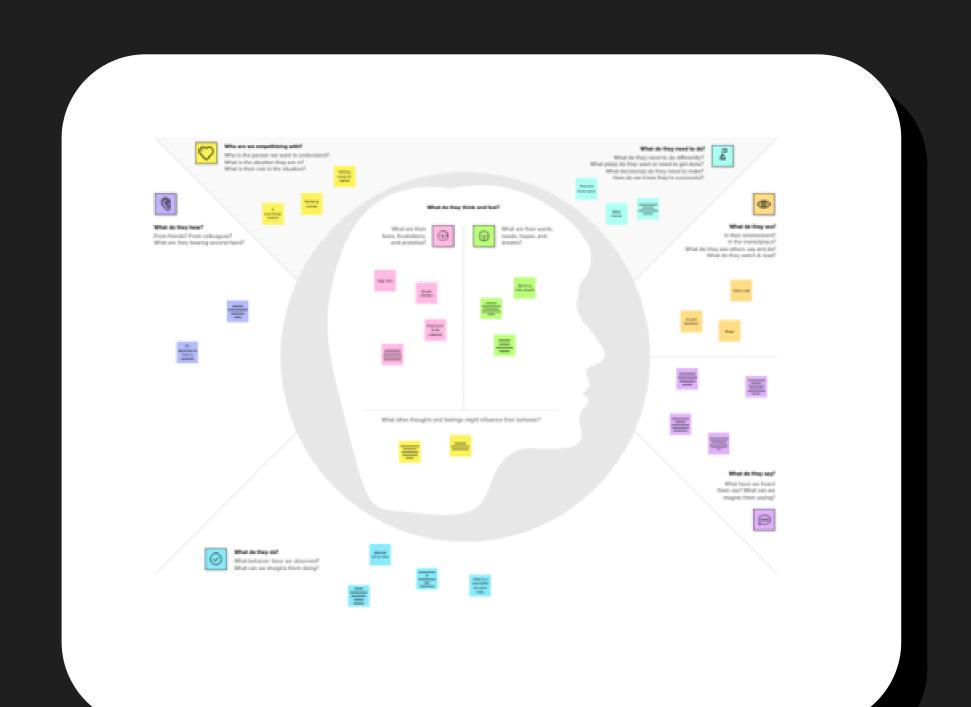


"I want to understand what's in the photos, especially when I can't



What do they DO?

 Relies on the app to improve their daily life, from reading menus to identifying landmarks.



Need some inspiration?

See a finished version of this template to kickstart your work.





