TEAM ICG

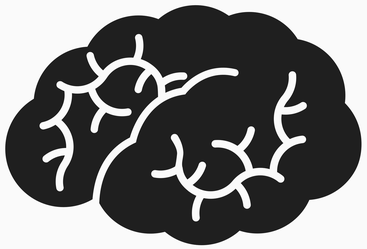


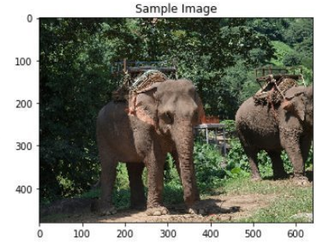
IMAGE CAPTION GENERATOR

This project is an implementation of an image caption generator using deep learning techniques. The model takes an input image and generates a descriptive caption that describes the content of the image. The project utilizes convolutional neural networks (CNNs) for image feature extraction and recurrent neural networks (RNNs) for language modeling.

G.L. Yasaswini 21BEC7008
G. Veda Pranav 21BCE8931
T Kankshith 21BCE8879

GOALS

- Enhance accessibility and understanding of visual content for a wide range of users.
- Improve content engagement and inclusivity, benefiting both creators and consumers.
- Advance the state of the art in image captioning technology for practical and real-world applications.
- Identify and capitalize on business opportunities and market growth related to image caption generation.



A group of elephants walking across a dirt road .

WHO are we empathizing with?

- People with visual impairments
- Content creators
- AI researchers and developers

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.
- **AI 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 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 THINK and FEEL?

PAINS

Inaccurate Results: If the image caption generator frequently provides incorrect or irrelevant captions, it can be frustrating for users.
Limited Language Support: Users might be dissatisfied if the tool only supports a limited set of languages.
Privacy Concerns: Concerns about the security of their images or personal data may be a significant pain point.
Legal or Ethical Concerns: Users may have concerns about copyright issues or the ethical use of AI technology.

GAINS

SEO: It can improve Search Engine Optimization (SEO) by generating descriptive alt text for images on websites.
Continuous Learning: The more data the model is trained on, the better it gets at generating accurate and relevant captions.
Automation: It can automate the task of generating captions for large numbers of images, saving time and effort.
Education: It can aid in learning by providing descriptions for diagrams, figures, and images in textbooks or e-learning materials.

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 media platforms, adding context to the images.
- 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 see them."

What do they DO?

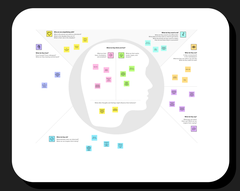
- Uses the image caption detector app regularly to access information about their surroundings.

What do they DO?

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

What do they DO?

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



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