

Problem Definition: The project involves creating an image recognition system using IBM Cloud Visual Recognition. The goal is to develop a platform where users can upload images, and the system accurately classifies and describes the image contents. This will enable users to craft engaging visual stories with the help of AI-generated captions, enhancing their connection with the audience through captivating visuals and compelling narratives.

Abstract:

In the digital age, the rapid growth of educational content has become both a benefit and a challenge for learners and educators. This project introduces an innovative solution: an educational image classifier and descriptor. The platform leverages the power of IBM Cloud Image Recognition and AI-generated annotations to streamline the educational process.

Our system provides a user-friendly interface for students, teachers, and content creators to easily upload and analyze images related to various topics. Leveraging advanced image recognition technology, it accurately classifies visual content, from scientific diagrams to historical artifacts. Additionally, it creates detailed and contextual captions, turning images into valuable learning resources.

With this tool, students gain a deeper understanding of complex topics by visualizing educational content. Teachers and educators can enrich their teaching materials with vivid descriptions and explanations. Content creators can create engaging educational content more effectively, improving the accessibility and understandability of their resources.

This project not only allows learners to explore and understand topics more effectively, but also opens up new avenues for educators to deliver impactful content.

By bridging the gap between images and information, our educational image classifier and descriptor contributes to a richer and more engaging learning experience in today's knowledge-driven world.

Design Thinking:

Image Recognition Setup: Set up the IBM Cloud Visual Recognition service and obtain the necessary API keys.

User Interface: Design a user-friendly interface for users to upload images and view the AI-generated captions.

Image Classification: Implement the image classification process using the IBM Cloud Visual Recognition API.

AI-Generated Captions: Integrate natural language generation to create captions for the recognized images.

User Engagement: Design features to allow users to explore, save, and share their AI-enhanced images.