

Report on the Design Process

Choice of Models

1. Hugging Face Model:
I selected an image-to-text model from Hugging Face to extract descriptive text from image inputs. This model acts as a translator between visual elements and language.
2. OpenAI Model (GPT-4):
I integrated GPT-4 from OpenAI to generate poems inspired by the descriptive text provided by the Hugging Face model. I chose GPT-4 for its sophisticated generative abilities and its capacity to create poetic, coherent responses.

Rationale

The project aligns with my goal of experimenting with AI as a creative tool. It provides users with an engaging way to explore poetry generated from visual inputs, showcasing how AI can reinterpret images into meaningful text.

Challenges and Solutions

The development process was straightforward as I followed existing tutorials for integrating the Hugging Face and OpenAI models into a Flask-based web app. The structured steps in the tutorials made it easy to combine these tools effectively. I encountered minimal issues during the integration. The process mainly involved understanding API calls, sending and receiving requests, and connecting the two models.

Inspiration

I drew inspiration from **Allison Parrish's work** on poetry and AI. Her creative experiments with generating poetry through machine learning inspired me to explore the intersection of imagery and text in this project.