

# 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.

Link to Video: <https://www.youtube.com/watch?v=smt51nMavC0>