

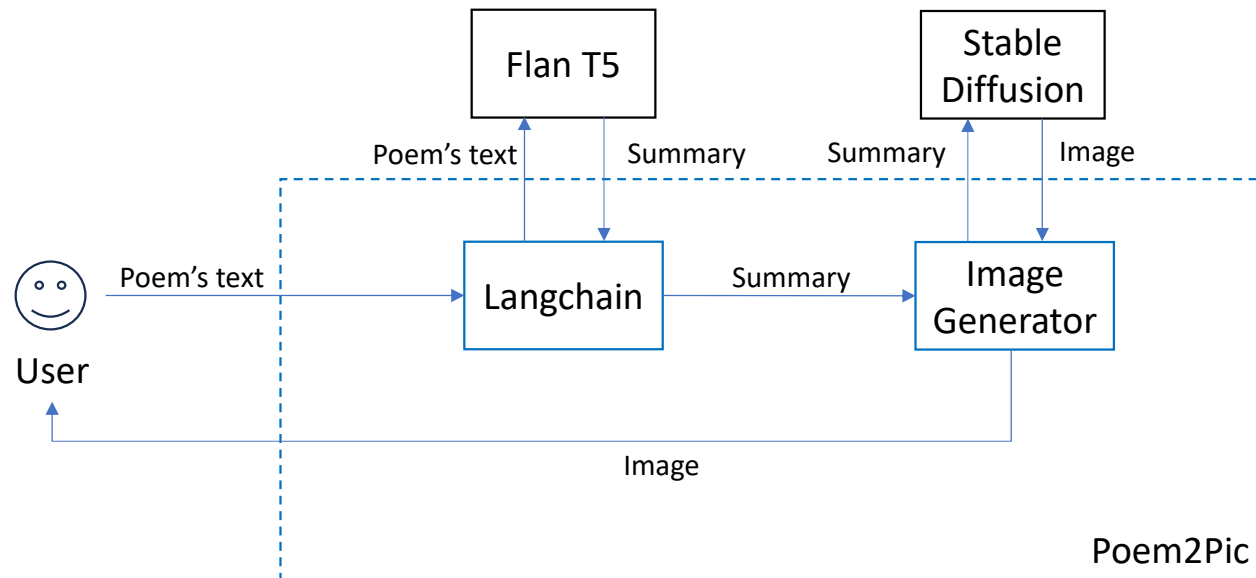
# Poem2Pic

Barun Saha

# Problem Statement

- Key idea: represent a poem as a picture.
  - In particular, generate an image based on the summary of a poem.
- State-of-the-art: ChatGPT and similar tools can help to achieve this goal.
- Lacuna: some of the contemporary tools lead to content privacy issues, which can be mitigated by using a home-grown solution.
- The target audience potentially includes, but are not limited to, poets, digital artists, and the self-publishing industry.

# Solution Approach



# Technology Stack

Purpose/Scope	Technology
Large language model (LLM) for text summarization	Flan-T5-XXL
Image generation based on text	Stable Diffusion 2.1
Interfacing with LLM	Langchain with HuggingFaceHub agent
User interface	Streamlit

# Demo

<https://huggingface.co/spaces/barunsaha/poem2pic>

Thank you!