

Challenges

Sunday, 5 November 2023 4:42 pm

How to implement caching:

Initially implemented using `st.cache` but was deprecated

The solution was found at streamlit docs caching resources using `st.cache_resource` to cache the model, this is to prevent the model from loading on every run, thus reducing run time.

How to include file upload:

Use streamlit file upload however the returned class cannot be processed by the huggingface pipeline

The solution was found in the streamlit forum here. The solution was to use `tempfile` library `NamedTemporaryFile`

How to catch errors.

The solution was to use `try` and `except`

How do I get users to record audio:

The solution was found using the streamlit component(`streamlit-audiorec`)

The app is still slow:

After implementing streamlit caching and other techniques to reduce run time the app is still slow because it's running on a slow compute unit (16 vCPU)