Visitor Engagement

Description

While on a trip to the museum we observed that there are limited ways to explore further about a particular art piece. We alleviate this through a companion android application for the museum. If a visitor is interested in a particular exhibit, a simple scan on the name tag will present the user with the relevant Wikipedia articles. In addition to this using style transfer, the visitor can create a version of themselves into any of the paintings that are on exhibit at the museum.

Motivation

During our visit to the CSMVS museum, at India in Nine stories exhibit, we wanted to know more about a particular exhibit but could not do so. So we wanted to build a system that would involve the least effort from the user end and give the most information about an exhibit.

Technical details

Platform - Android application
Languages - Android, Python, Frameworks used - Volley (Android), Fresco (Android), GSON (Android), Google Cloud Vision API, PyTorch (Python), Tornado (Python)
Using the Google Cloud Vision API, we are parsing the text that is on the name tag of an exhibit and then returning the relevant wikipedia articles. For style transfer, we are using the features generated by the CNN for both the style and content image. Then through a loss function, we are training a model to transfer features from the style to the content image.

GitHub Links

Android

App - https://github.com/Ramkishorevit/Iris

Python

Style Transfer - https://github.com/Nikhil-Kasukurthi/Style-transfer/
Dive In - https://github.com/Nikhil-Kasukurthi/Dive-In