

Project Pitch

**Jayashre Navya Nayer Aanya Chauhan SaiSree Kodali
Pranathi.M**

June 21, 2023

Objective

To capture moments effortlessly with an intuitive gesture-powered photo experience that sets a new standard in camera interaction.

Target Audience

Photography Enthusiasts

Social Media Users

Creative Professionals

Features

Automatic Smile Detection

Photo Capture with Hand Gestures

Zooming with Gesture-Based Controls

Dynamic Filter Changes through Gestures

Tech Stack

AR Filters and Colour Filters

MediaPipe - Face detection

OpenCV's Facemark API - Face features detection

Makesense - Labelling the feature points in the photo

Photoshop, free to use images - Filters Deploying

Lookup Table Library - Colour Filters

Tech Stack

App Development

Android Studio - IDE

Kotlin - Programming Language

Android Camera2 - API

Jetpack Compose - UI

Tech Stack

Hand Gesture and Face Recognition

Tensorflow's Keras API - Hand Gesture

Google ML Kit - Face Recognition

Tech Stack

Integration

Pyjnius - Python - to - Java Bridge

Setting up Python Environment

Preparing Python-to-Kotlin integration.

Python code using Bee Ware Library for Android execution.

Future Scope

1. Develop our project into an iOS App
2. Enrich user experience by incorporating intuitive gestures like turning on the video or activating the timer.
3. Transform our project into a vibrant social platform, fostering connections and collaboration.
4. Extend the reach of our project by creating a web app for seamless accessibility.