

Project Synopsis/Project Concept Document

(Due: 25th January)

Project number	32
Project Title	<i>Fixing expressions by stitching the best one</i>
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Description

The Project aims to create an application for automatic eyes and smile correction in a photo. It requires to map out the region of interests in a given set of photos using key point detection on faces. The project aims to identify the ones with the best eyes and smile and stitch them onto a photo. In the process, the project requires to study and implement computer vision techniques to stitch and smoothen the output. It also requires us to deploy the application on the server so that the metadata and photos generated from the algorithm are saved. At the end of the project we are expected to:

- 1) Take the best elements from photos that we have and then combine them to make the best photo.
- 2) Find a metric to decide what makes any component of any photo the best.

3) Find the best photo from the given dataset of photos.

Profile of Users

The main users of the application will be professional Wedding Photographers. Although it is also meant to be for general purpose usage. Wedding Photographers click multiple photos in order to not miss on any precious moments. The application aims to ease the workload of these photographers by automating the task of segregating the best photo out of those multiple photos that they have clicked.