

**SYNOPSIS**

**PROJECT TOPIC : VISION FIXEL**

**Group Members**

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**Project Mentor**

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**Objective of the Project**

To build a standalone application for image processing using python .

**Technology Used**

* ML
* Pixelization

**Prerequisite**

1. Python 3.8
2. Kivy Framework
3. I3 Processor
4. Windows/Linux/Mac
5. Pycharm
6. Numpy, Pandas and OpenCV

**Detailed Description**

In this project we will kivy framework for developing UI. We will be using a few of the python’s Libraries for image processing . After applying different image processing algorithms, we will enhance the quality of image and provide other effects.And at last , we will allow the user to save it’s image.

**Problem Statement**

* We will identify the different methods to enhance the quality of the image.
* We will explore different options from kivy framework to build our UI .
* We will also identify the different algorithms available for image processing.
* We will also check the compatibility of our application with different OS.

**Future Scope**

The scope of this project is image processing and filtering with the help of Machine Learning Algorithms based on image features extraction techniques. Additionally, the purpose of this application is used for image processing tasks such as image enhancement and extracting image boundary edges and recognition of objects from image filtering.

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