

Experimental Learning Activity (B. Tech. – 3rd Semester)

**Real-time applications on Computer Vision using MATLAB and Python**

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1. Problem statement : Face Detection

Face detection is a technique to find the location of the human faces in an image. Computers use various types of algorithms to detect if the shape in the image resembles a face or not.

1. **Software Required**

* PYTHON
* CV2 (haarcascade\_frontalface\_default)
* ANACONDA (JUPYTER NOTEBOOK)

1. Learning

* Gain practical experience by implementing computer vision algorithms and working on projects that involve real-world datasets and applications.
* Learned how to evaluate the performance of computer vision algorithms using metrics such as precision, recall, accuracy, and mean average precision (mAP).

1. Result : Face Detected

