

PROJECT DESIGN PHASE II

Technical Architecture / Stack

Team ID	PNT2022TMID41774
Project Name	Emerging Methods For Early Detection of Forest Fires
Maximum Marks	2 Marks

Open source framework:

- ❑ The fire detection system starts by forming a color probability model for the segmenting fire region using the gaussian mixture model and expectation maximization (GMM-EM) methods.

- ❑ Then, the model is trained based on a dataset containing varying fire colors.
- ❑ This model would find the fire region candidates in the video frames extracted from the video input.
- ❑ After obtaining the candidates, the machine learning were performed for verifying them based on the color histogram.

EG:(HSV, YCbCr, or RGB)

