Emerging methods for early detection of forest fire

**PROJECT FLOW**

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| Team ID | PNT2022TMID17141 |
| Project Name | Emerging methods for Early detection of forest fire |

**PROJECT FLOW:**

* The user interacts with a web camera to read the video.
* Once the input image from the video frame is sent to the model, if the fire is detected it is showcased on the console, and alerting sound will be generated and an alert message will be sent to the Authorities.

# To accomplish this, we have to complete all the activities and tasks listed below

* **Data Collection.**

Collect the dataset.

# Image Preprocessing.

Import ImageDataGenerator Library.

Define the parameters /arguments for ImageDataGenerator class Applying ImageDataGenerator on trainset and test set.

# Model Building

Import the model building Libraries Initializing the model

Adding CNN Layers Adding Dense Layer

Configure the Learning Process Training and testing the model Save the Model

Prediction

# Video analysis

OpenCVfor video processing Creating an account in Twilio service Use Twilio API to send messages.