## **PROJECT FLOW**

- Fire in a sparsely populated forest area and it is more difficult if the prediction is done using ground-based methods like Camera or Video-Based approach.
- 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.
- Usage of the satellite images to observe, detect, and report fire events. Implementation of the wireless sensor networks to observe the fire events exist in all areas.

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o accomplish this, we have to complete all the activities and tasks listedbelow	
aco	ta Collection - data collection is the process of gathering, measuring, and analysing curate data from a variety of relevant sources to find answers to research problems, swer questions, evaluate outcomes, and forecast trends and probabilities.  Collect the dataset or create the dataset.
an	age Pre-processing - Image processing is a method to perform some operations on image, in order to get an enhanced image or to extract some useful information om it.  Import ImageDataGenerator Library.  Define the parameters /arguments for ImageDataGenerator class  Applying ImageDataGenerator on trainset and test set.
• Mo	odel Building
	Import the model building Libraries Initializing the model Adding CNN Layers Adding Hidden Layer Adding Output Layer Configure the Learning Process Training and testing the model Optimize the Model Save the Model
	deo Streaming and alerting OpenCV for video processing Creating an account in Twilio service Use Twilio API to send messages.