

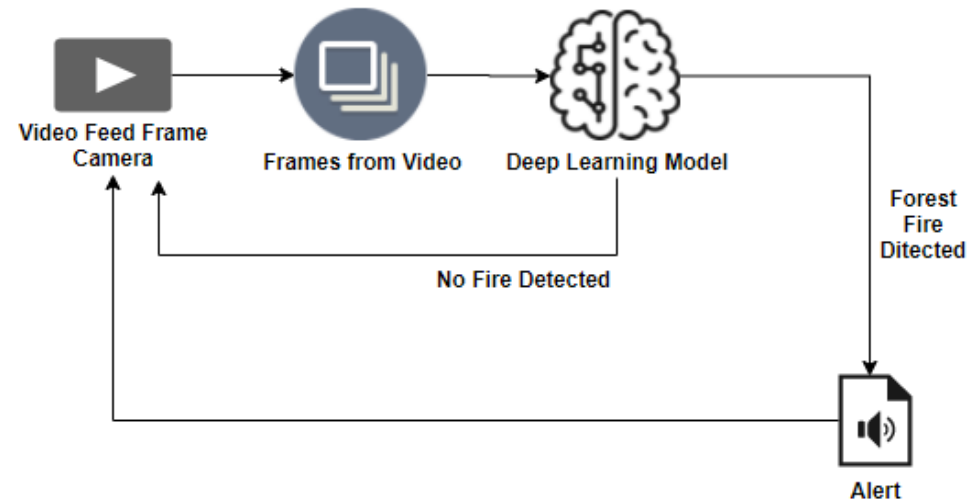
**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	26 October 2022
Team ID	PNT2022TMID01865
Project Name	Project - EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES
Maximum Marks	4 Marks

**Data Flow Diagrams:**

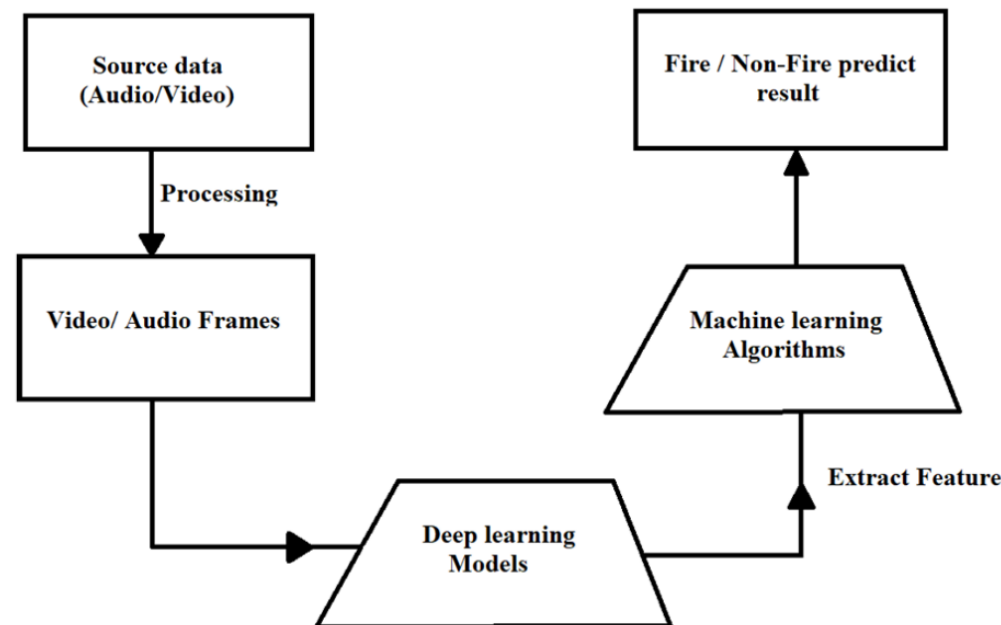
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

**Example:**



- ✓ It is more difficult to forecast using ground-based methods, such as a camera or video-based approach.
- ✓ Predicting and detecting forest fires in sparsely populated areas is difficult.
- ✓ The limited amount of energy, the energy required for data processing, the limited communication range and computations, the complexity of ML algorithms when executed on sensor nodes
- ✓ The challenge of being distributed on each sensor node.
- ✓ the various real-time methods for forecasting and detecting forest fires in order to alert local fire authorities.

**Diagram:**



## User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Forest department and environmentalist	Collection of Data to enter as dataset.	USN-1	An environmental rights activist must gather information about forest fires.	To predict the forest fire, we should collect the data.	High	Sprint-1
		USN-2	Drafting and pointing out the algorithms for predicting the forest fire.	To collect the algorithms and determine the accuracy of each algorithm.	Medium	Sprint-1
	Implementation of algorithm.	USN-3	Determining the precision of each algorithm.	The algorithm's accuracy must be calculated.	High	Sprint-2
		USN-4	Extracting and assessing the dataset.	Before training, data is pre-processed.	High	Sprint-1
	Evaluation of algorithm.	USN-5	Determine the precision, accuracy, and recall of each algorithm.	Accuracy is essential for detecting the presence of fire.	High	Sprint-1