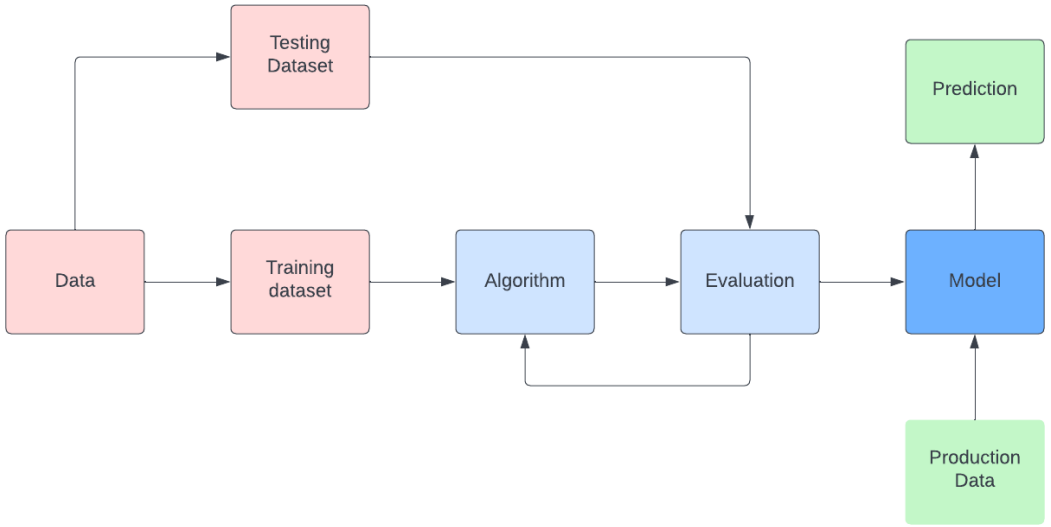
Project Design Phase - II

Data Flow diagram and User Stories

Team ID	PNT2022TMID21021
Project title	Emerging Methods for Early Detection of Forest Fires
Maximum marks	4 marks

Data Flow diagram:

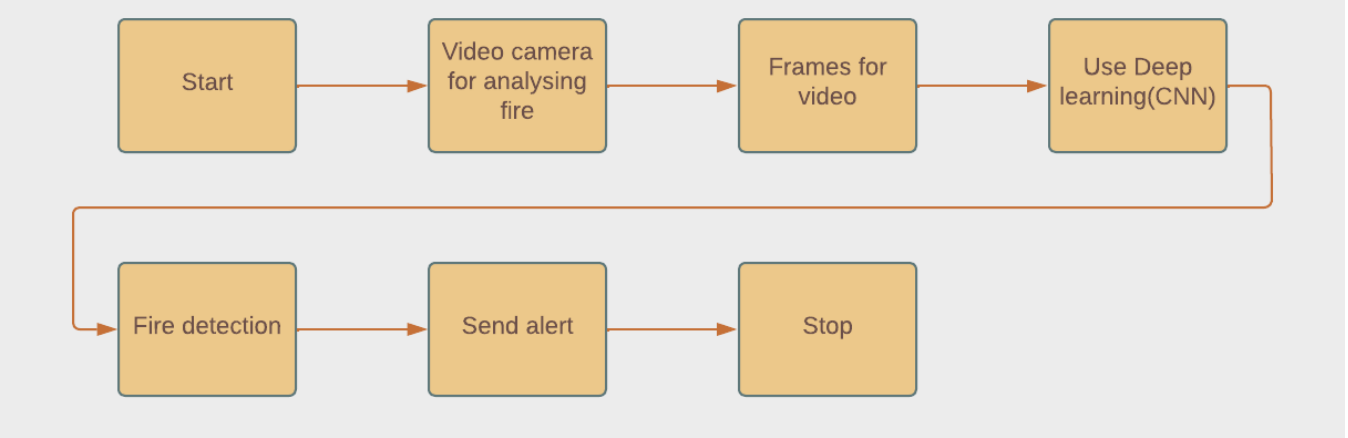
A data-flow diagram is a way of representing a flow of data through a process or a system (usually an information system). The DFD also provides information about the outputs and inputs of each entity and the process itself. A data-flow diagram has no control flow — there are no decision rules and no loops. Specific operations based on the data can be represented by a flowchart.



Simplified DFD:

1. Collect data
2. Evaluate dataset
3. Implement algorithms
4. Evaluate the accuracy of each algorithm
5. Display result

Industry Standard DFD:



User Stories:

User type	Functional Requirement	User story number	User Story/ Task	Acceptance criteria	Priority	Release
Environmentalist	Collect the data	USN -1	Environmentalists help the public make informed decisions about the use of limited natural resources. They do research, produce reports, write articles, lecture, issue press releases, lobby congress, fundraise, and campaign. The daily routine depends on the specialty.	It is necessary to collect the right data else the prediction may become wrong.	High	Sprint – 1
		USN - 2	Identify algorithms that can be used for prediction.	To collect the algorithm to identify the accuracy level of each algorithm.	Medium	Sprint - 2
	Implement algorithm	USN - 3	Identify the accuracy of all the algorithms that are being used.	Accuracy of each algorithm is calculated so that it is easy to obtain the most accurate output.	High	Sprint – 2
		USN - 4	Evaluate the Dataset.	Data is evaluated before processing.	Medium	Sprint – 1
	Evaluate accuracy of algorithm	USN - 5	Identify accuracy, precision and recall of each algorithm.	These values are important for obtaining the right output.	High	Sprint – 3
	Display results	USN - 6	Outputs from each algorithm are obtained.	It is highly used to predict the effect and to take precautionary measures	High	Sprint - 4