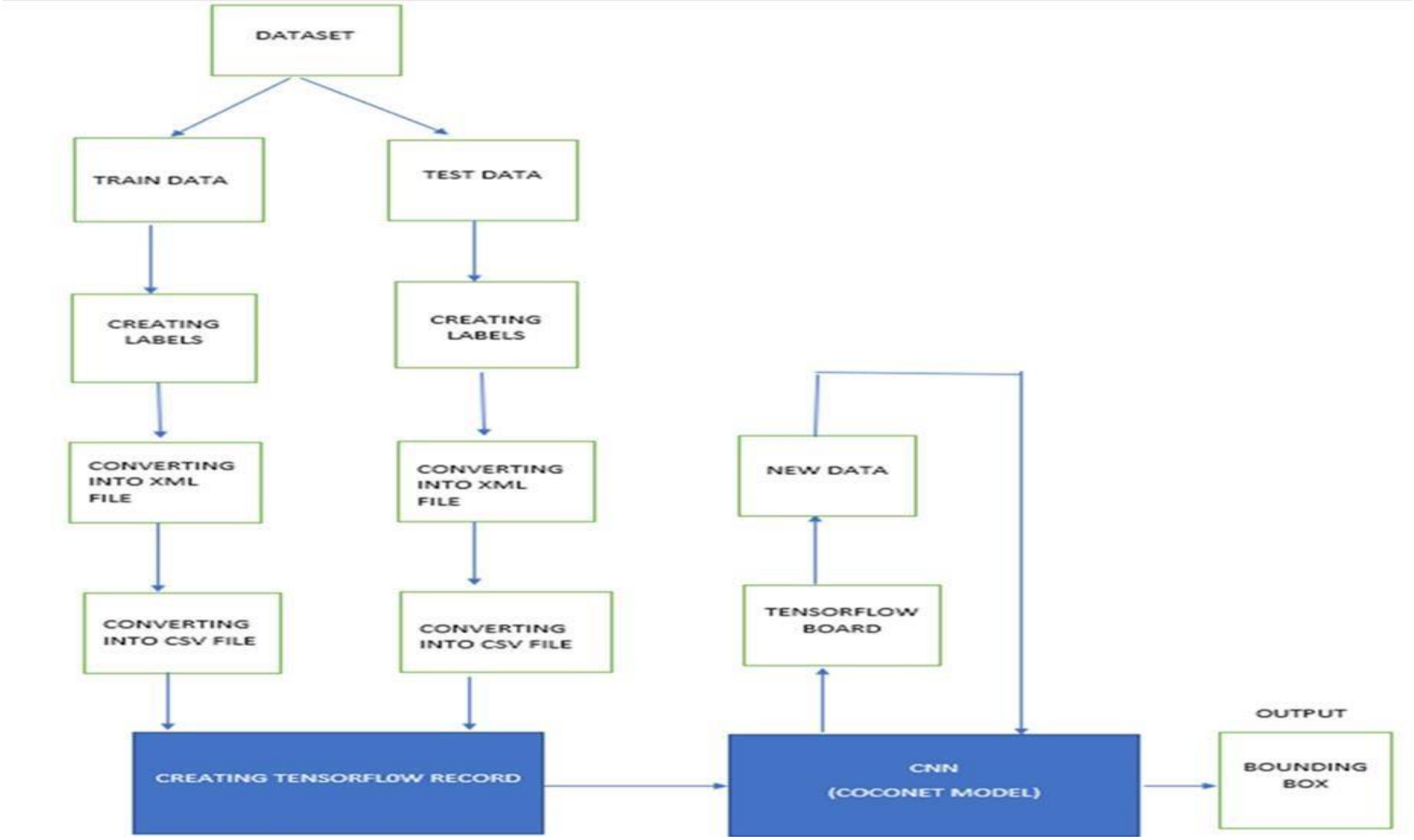
Analysis, Interpretation and Modeling:



PROBLEM SOLUTION DIAGRAM:

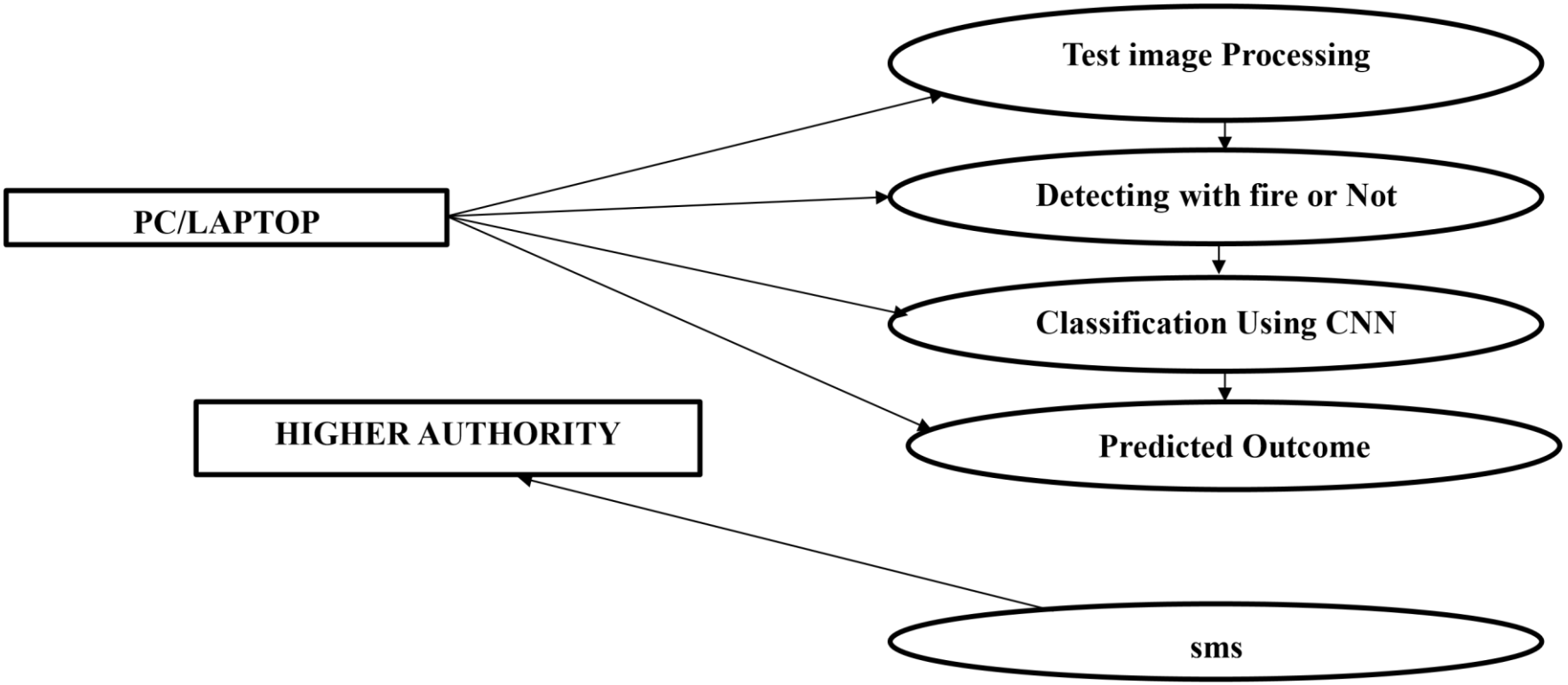


Table-1: Components & Technologies:

S.no	Component	Description	Technology
1.	User interface	This project will be interact with real time camera	Image processing
2.	Application logic	Process logic in this project	python
3.	camera	Data processing	Cctv camera
4.	Database	Train and test data folder	Labelled dataset ,From kaggle
5.	Cloud database	Database service	Ibm
6.	Database system	File storage	Local file system on computer or pc
7.	Deep learning model	Purpose of model	Real time object detection and image processing
8.	Infrastructure	deployment	Local and ibm server

Table-2: Application Characteristics:

S.no	Characteristics	Description	Technology
1.	Open-Source Frameworks	We use opensource frameworks and library/modules.	Python, tensor flow Keras,keras api opencv
2.	Security Implementations	We use real time camera to detect the fire and send the data.	Twilio sms module,opencv,python
3.	Scalable Architecture	We use image processing technique.	CNN(convolutional nueral network).
4.	Availability	We use this application to everywhere specially for forest and place like possible to fire.	Cct camera,image/video processing technique called cnn.
5.	Performance	The can algorithm is defect the fire with high accuracy compare to other machine / deep learning algorithm.	CNN(convolutional Nueral Network),image processing.