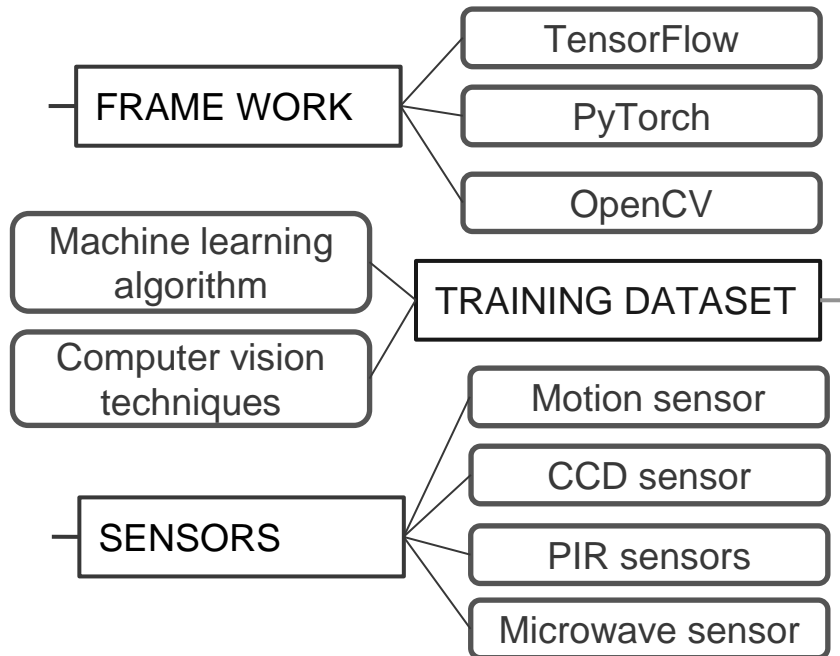# WOMEN'S SAFETY MONITORING AND REPORTING

Problem Statement ID:1371
Problem Statement Title: Community-Based Reporting and Monitoring Tool for Women's Safety in Colleges/Uni
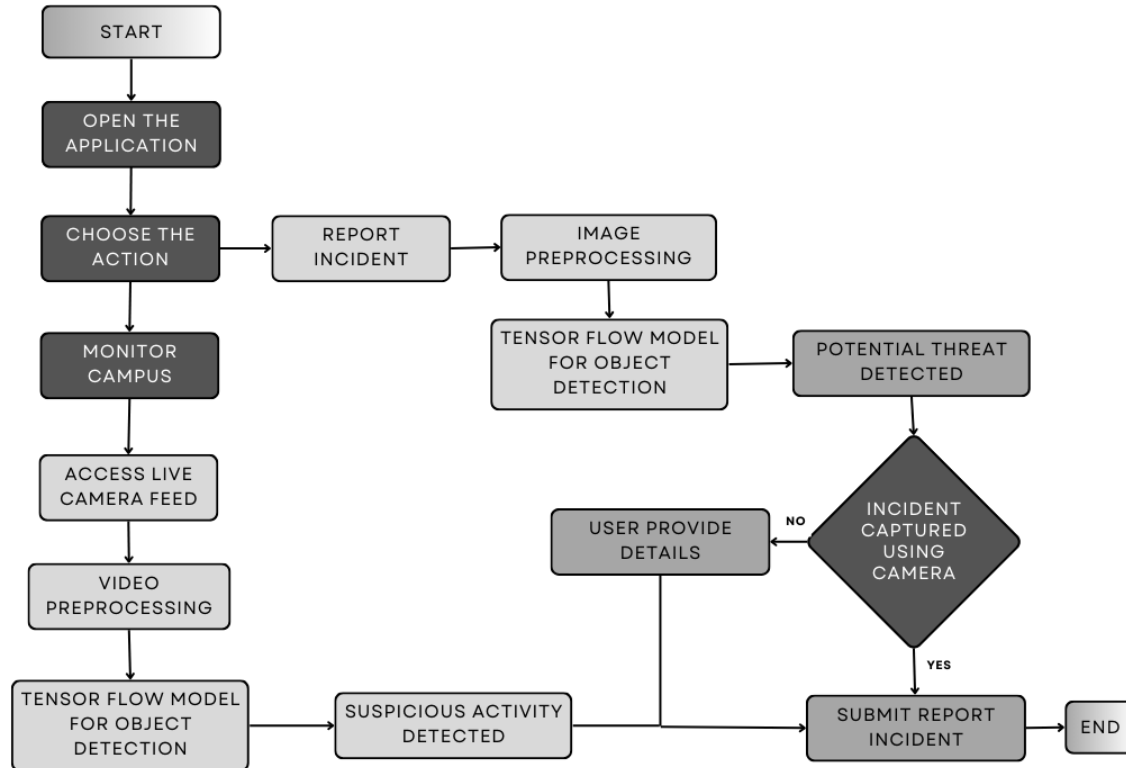Organization: Government of Jharkhand
Domain Bucket: Miscellaneous

TECHNO STACK

```
FRAME WORK ─┬─ TensorFlow
            ├─ PyTorch
            └─ OpenCV

Machine learning algorithm ─┐
                            ├─ TRAINING DATASET
Computer vision techniques ─┘

SENSORS ─┬─ Motion sensor
         ├─ CCD sensor
         ├─ PIR sensors
         └─ Microwave sensor
```

APPROACH / IDEA

- The main objective is to develop predictive analytic models to prevent mishaps even before they occur and to develop, monitor, predict, and provide actionable intelligence to prevent mishaps.

- For this, detecting CCTV cameras are trained with motion detection algorithms and if any pixel change is detected with a reference frame, an alarm is buzzed

- Background Subtraction and video analytics are also introduced to detect specific type of actions and can ignore static objects and changes in lighting

TECH FLOW

TEAM DETAILS:

TEAMMATE NAME	BRANCH	STREAM	YEAR
R K Nivetitha	Btech Computer Technology	Computer Science	II
I Janany	Btech Computer Technology	Computer Science	II
P Sampreetha	Btech Computer Technology	Computer Science	II
M Linisha	Btech Computer Technology	Computer Science	II
U Mani Sankar	Btech Artificial Intelligence and Machine Learning	Computer Science	II
R Franish Runo	Btech Artificial Intelligence and Machine Learning	Computer Science	II

MENTOR	EXPERTISE	CATEGORY	DOMAIN EXPERIENCE
K MaheshKumar	CS	Academic	
R Leelavathi	CS/AL	Academic	7+years