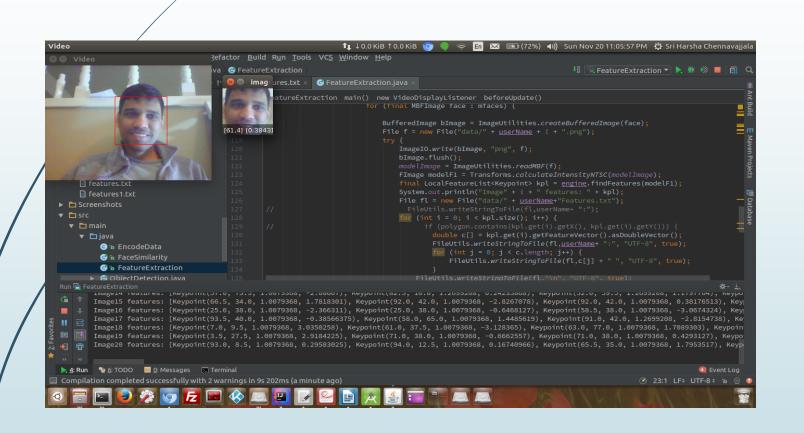
Intrinsic Detective System

Sri Harsha (4), Priyadarsini (16), Tej Kumar (27), Chaitanya Sai (14)

Introduction

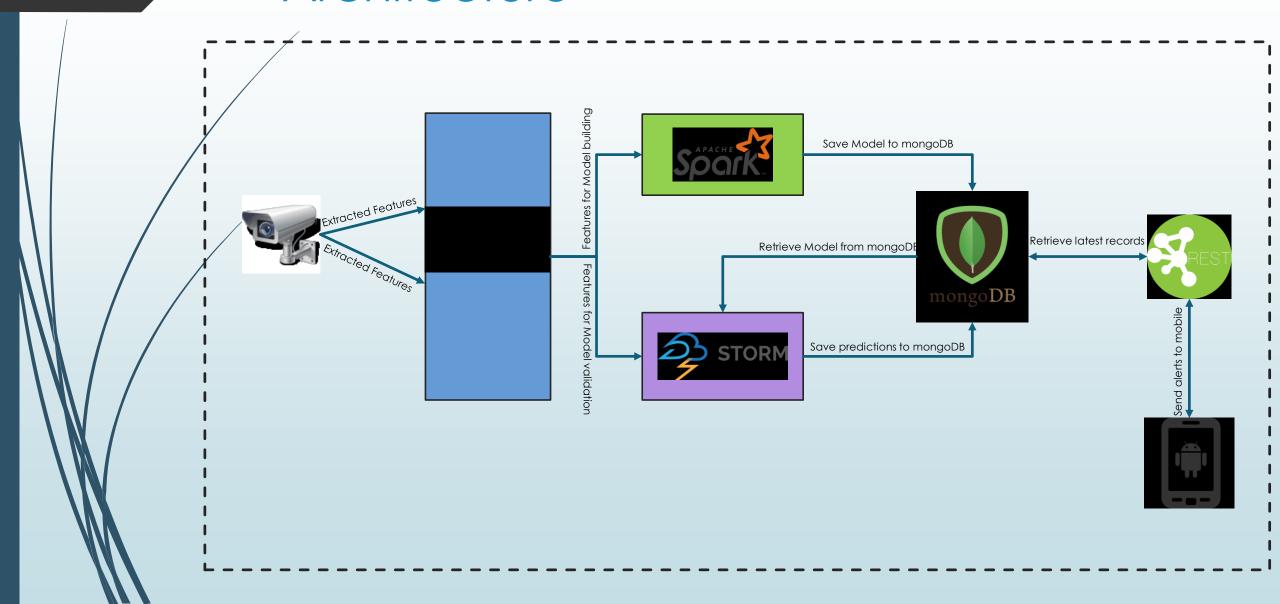
- Our application main goal is to recognize the suspects in a stream of video and alert the security personnel.
- The tools that we used are:
 - **OpenIMAJ Framework** to record and process the video, to extract features
 - Kafka Messaging System to transfer the features reliably from client to Spark or Storm
 - Apache Spark MLLib to generate a Decision Tree based model for the features dataset
 - Apache Storm to process the received data streams in real-time
 - Mongo DB to store the model and predictions
 - nodeJS & GCM to develop a REST application to serve the messages to android devices

ROI and Feature Extraction

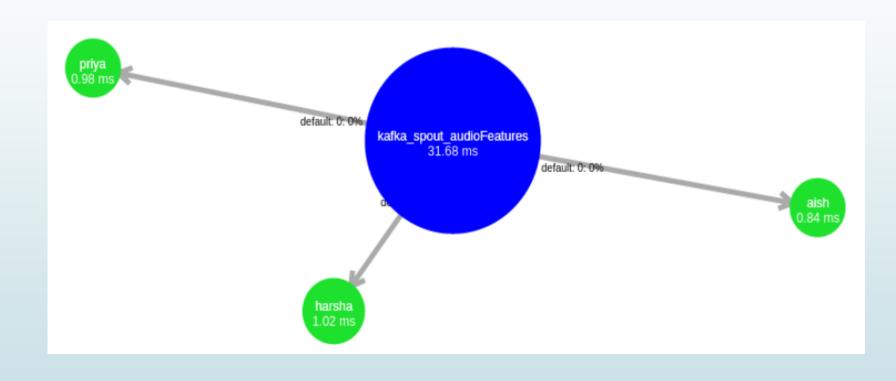




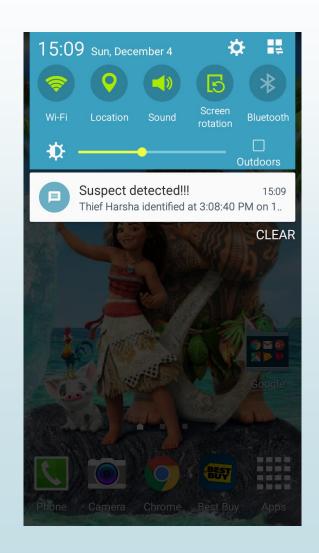
Architecture

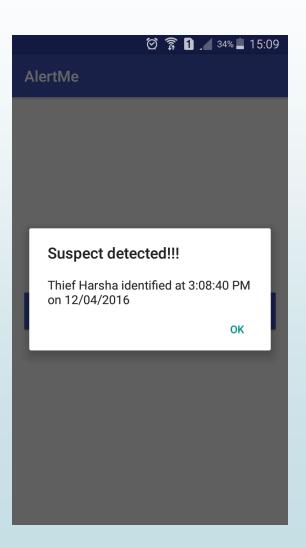


Storm Topology



Android device alerts





Results

Confusion Matrix		Predicted	
		Harsha	~Harsha
Actual	Harsha	996	250
	~Harsha	173	375

Thank You