Bug Report

Project: Using existing CCTV networks for crowd management,crime detection and prevention and work monitoring for Railway Stations

Team: Meta Minds
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Identified Bugs and Roadblocks:

1. Model Deployment Issue:

- Bug Description: The model to be deployed on AWS Sagemaker requires a large.x6 instance and shows slow performance on medium compute instances.
- Severity: Medium
- Impact: Provides slow performance due to time taken for program execution(Epoch iterations).
- Planned Fix: Reduce the number of layers hence decreasing the models accuracy to some extent in exchange of high speed or making a large compute accelerated instance available.

2. Frontend Rendering Issue:

- Bug Description: The development server screen is loaded with a compilation error page which displays type error.
- Severity: Low
- Impact: The entire webpage is not loaded due to inconsistency in the data-type of the parameters.
- Planned Fix: Debugging the entire code to prevent function parameter type mismatch and type errors.

3. Model Performance Inconsistency:

- Bug Description: The accuracy of the anomaly detection model varies significantly across different subsets of the dataset and with a relatively lower accuracy which needs to be checked and improved.
- Severity: Medium
- Impact: Limits model reliability and effectiveness in real-time detection of anomalies and the crowd.

- Planned Fix: Explore techniques such as normalization and data augmentation to improve model generalization and improve the accuracy by feeding better datasets to the model with updated libraries and functioning.