

Overcrowding Management Tool

Students

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Objective / Background / Motivation

After the Itaewon crowd crush incident in October 2022, the severeness of the crowd crush/ stampede issue was brought to public attention. This project aims to

- Prevent overcrowding
- Mitigate the effects of overcrowding (eg: reducing casualties)

Existing Solutions

- Cordoning areas with public safety risks (requires pre-planning)
- Monitoring the number of smartphones in an area (may not be accurate)

Our Solution

1. Count the number of people in an area with CV
2. Find the density of people based on area
3. Alert the authorities if the density exceeds a threshold

Resources Needed

- Cameras