Gifted Education Fund

AIoT Coding, Engineering and Entrepreneurial Skills Education for Gifted Students

CongestionNow

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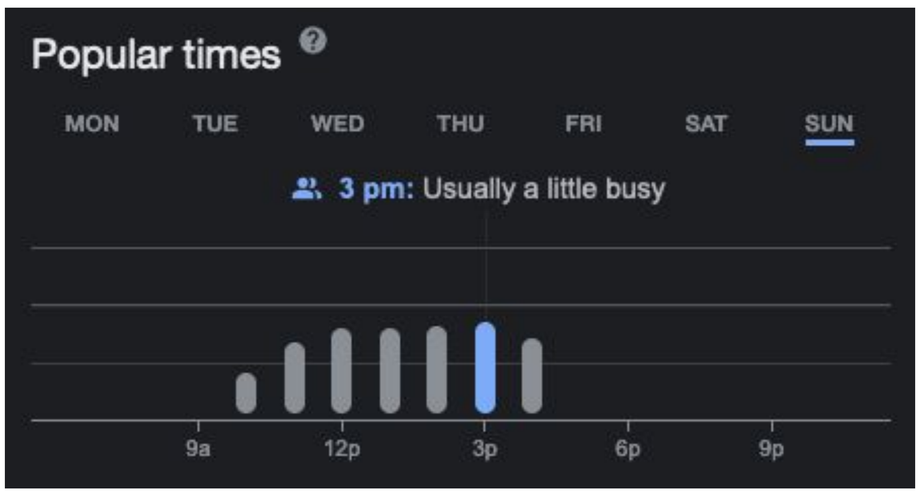
Objective/Background/Motivation

- Inform Hong Kong residents regarding the traffic of specific locations in the city prior to their arrival at the destination, to ensure that they will have space
- Circumvent the overcrowding of public areas, including public libraries, restaurants, and buses, and prevent long line-ups as a result of unawareness of peak hours

Existing Solution

- Google Maps already provides a metric on the traffic of an 'area of interest'
- However, this is based on location data derived from Google Location History
- This data excludes people who are not using Google Maps, whom are most likely to be elderly in locations like restaurants and libraries
- Specific locations in multi-story buildings are not accounted for as altitude cannot be differentiated using satellites
- Not real time, based on pre-established trends



Your Solution

- Utilizes real time camera footage and facial/person recognition to identify percentage of congestion, pushing the data to a live server/application to display data to the public
- Instead of location data, camera footage will help provide a more accurate representation of traffic
- The data collected can help form more accurate trends, leading to solutions in other sectors such as energy usage (reduction of energy based on human traffic trends) or helping business owners prepare for peak hours

Resources Needed

- External camera/webcam for testing
- Dataset for facial/person recognition

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