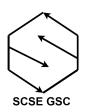


## BUS VACANCY CHECKER

BY HITESH AGARWAL



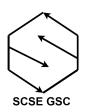






## **Problem Statement**

- 1. Addressing UN SDG 11
- 2. Targeting users of campus buses in NTU
- 3. Aims:
  - a. Minimize waiting time
  - b. Minimize Fuel Wastage
  - c. Minimize overcrowding of buses in peak hours







## Solution

- Backend computer vision system inside the buses at each door which detects the number of people entering and leaving the buses.
- Frontend application for users showing the crowd in the incoming buses so that users can find an alternative if they are full.
- Backend database which can be used in the future for predicting demand of buses using machine learning techniques.