**DUMPS**

-*Geotagging illegal dumps*

**Abstract**

**Necessity:**

2,275,045 tonnes of garbage was generated in Bangalore during the last year only , which is more than **6000 tonnes every day**. A considerable amount of this goes uncollected by the municipality authorities( BBMP) and ends up either in illegal dumpsites or collects at roadside spots.

This menacing problem is visible near our homes, colleges and workplaces. We try tackling this in our project, DUMPS along with some help from users.

**Objectives** :

* **Primary Objective :**

The primary use we imagine is that **users take photos** from their camera and upload it in the app. The picture is then classified using a pre-trained ML model into whether it’s a garbage dump or not. If it is found to have a large probability of being a dump, then the user’s phone’s location (from where the photo was taken) is geotagged and stored as a dump in the app. Additionally, the user can enter details about the dump such as it’s size, probable waste type (dry or wet waste) etc can also be entered.

* In this way, any concerned citizen can upload a photo of the illegal dump in their vicinity and we will keep track of that.
* **Secondary objective:**

Hygiene-related NGOs, Communities and concerned users can use the app to identify the dumps and clean them. If cleaned, then the dumps will be registered as cleaned (Note: Validation of whether the dump is actually cleaned is yet to be tackled).

* The dumps will be displayed using embedded google Maps. The dump sites will be shown as landmarks. On clicking the landmarks, an activity showing details about the dump (such as the date when it was identified, size of the dump etc) will be displayed.

Possible Future Additions:

* If user opts for it, periodic notifications about newly identified dumps in their vicinity can be sent to them.
* Image processing of the dump pictures can be performed and specific categories of trash in the image ( glass,plastic,paper etc) can be identified .

**NOTE :**

Modules and other details will be added as we work on the app.

**Team :**

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