**Detection of overlapping objects**

Computer Vision (CS6350)

TPA - 8

1. **Problem Statement**

The task is to detect overlapping objects from 2D images. For example, a 2D image containing a bunch of coins, vegetables, etc. Although a plethora of algorithms exists, accurate detection is challenging because of object-to-object variability, object shape irregularities, presence of cluttered & overlapping objects, image noise and contrast which requires problem-specific tailoring of algorithms. The goal of this project is to develop an efficient algorithm to accurately detect coins in an image containing coins and detect vegetables in an image containing vegetables.

1. **Input**

* 2D image consist of Coins on a table
* 2D image consist of Vegetables

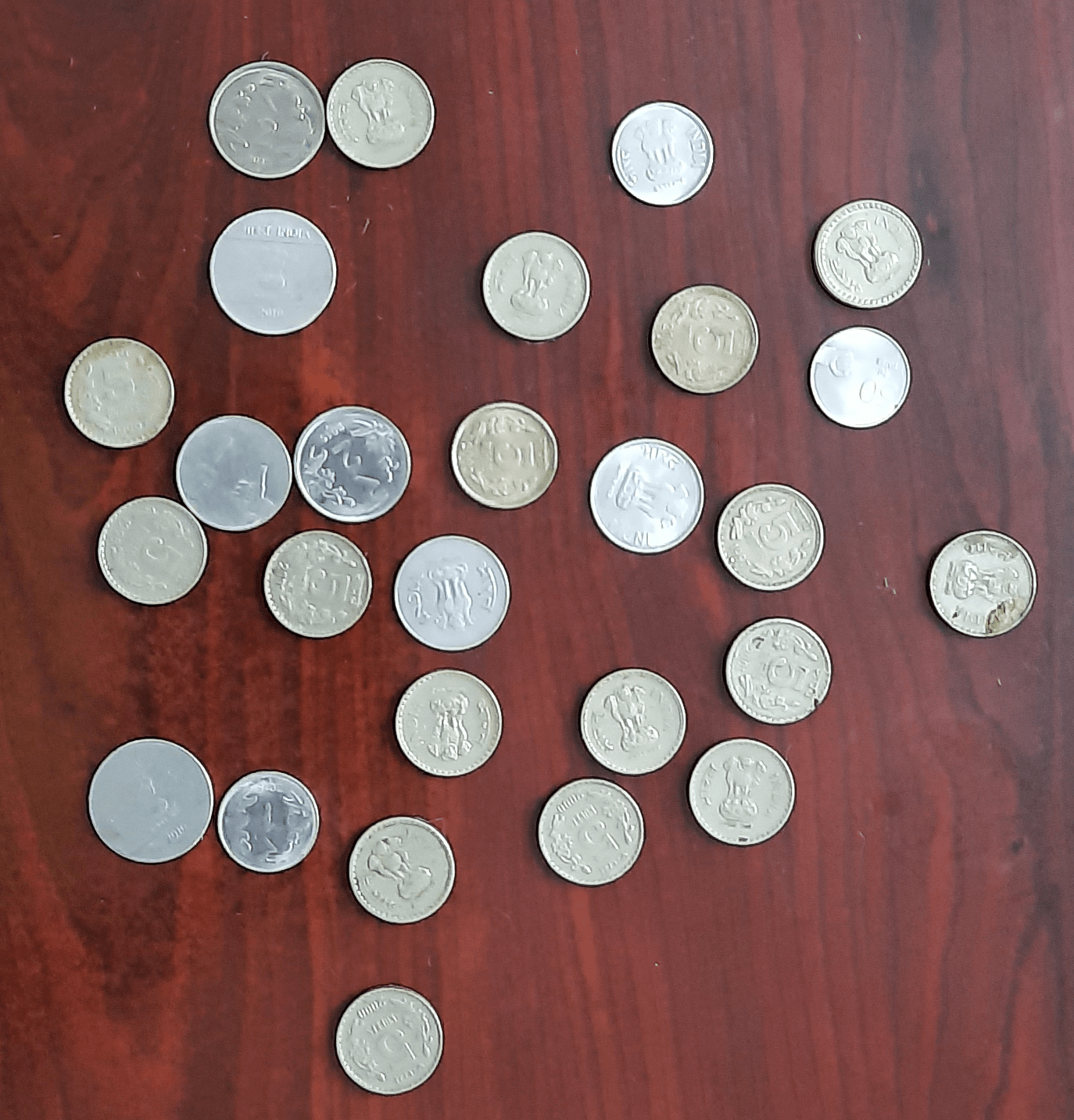
.

Fig 1



Fig. 2

**3. Expected Output**

* **Qualitative Results:** Location of the coin/vegetable in the image.
* **Quantitative Results:** Precision-Recall values for each test image provided.

**4.Dataset**

* Coin Dataset
* Fruit Dataset

5.**References**

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