**Smart Cart : An AI powered shopping app for effortless product recognition**

**Problem Statement**

It aims to solve the problem in supermarkets where customers wait in long queues for checking out. Therefore, there is a a lot of time and resources being wasted. Therefore, customers are seeking ways to avoid manual billing by exploiting the ever-evolving technology. Our solution provides an automated billing system, making use of image recognition, which improves customer satisfaction.

**Abstract**

In the last ten years, the number of supermarkets have drastically increased from 500 to over 20,000. This is a result of attempting to accommodate a massive number of customers, waiting in line. There is thus a need to upgrade the technology in response to higher demands. We are providing an efficient and effortless solution by implemening image recognition system in billing to improve customer satisfaction

**Objectives**

* To provide an efficient shopping experience which enables customers to identify products without manual search, using image recognition through machine learning.
* To develop a streamlined checkout process which enhances a smoother transaction by directly adding items to the cart, and managing the bill, by making use of compact mobile applications.
* To enhance customer satisfaction associated with reducing the time spent waiting in long queues, and avoiding cashier interaction.
* To promote convenience and accessibility in retail environments, by automating the billing process.