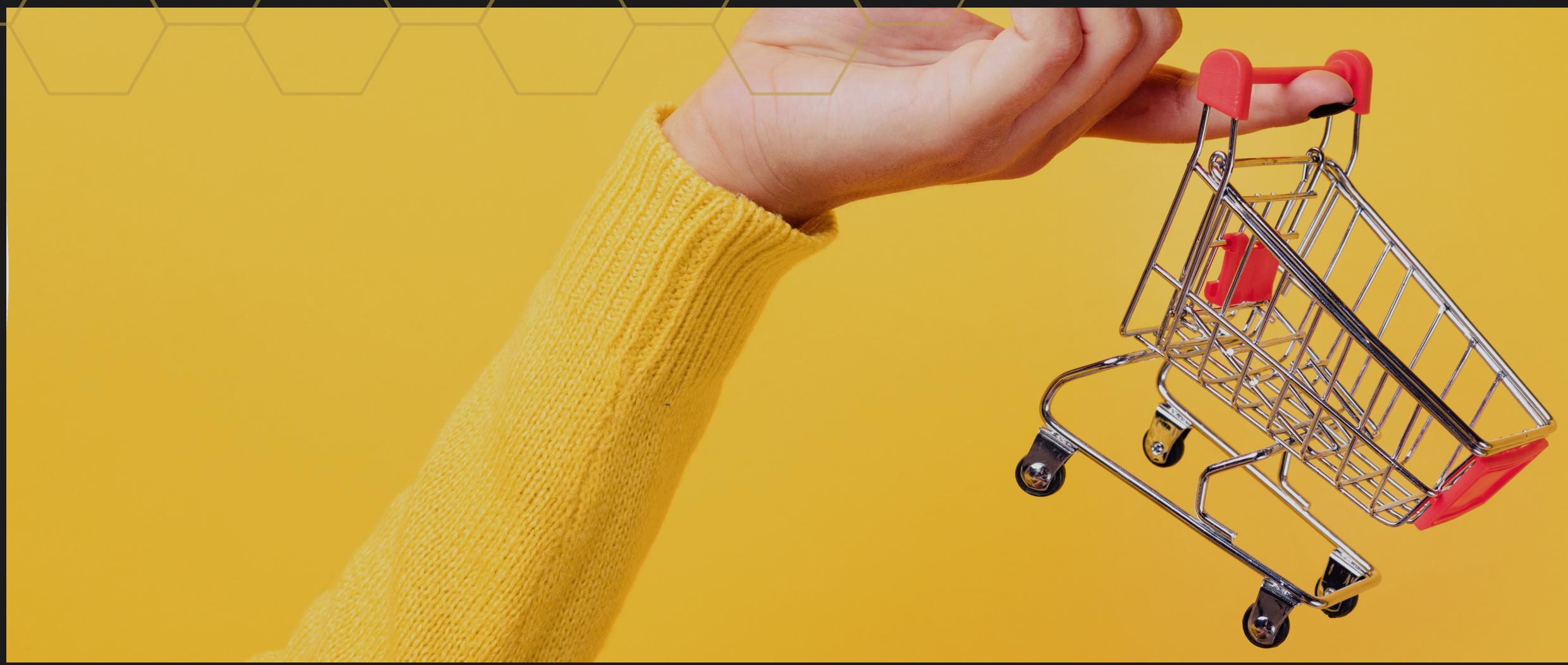


grocerybee

The Future of Grocery Shopping



GroceryBee is a robot to assist grocery stores in keeping up with their online orders. GroceryBee is able to collect required items in response to the orders while navigating between the supermarket aisles. It can easily detect requested items on the shelves, picks them up safely and brings them to the delivery point for speedy delivery to customers.



Pillars of Autonomy

1

Deep Perception

Exploits real-time images from RGBD cameras.
Novel deep learning models to segment & classify objects.

2

Task Planning

Plans the shortest path for visiting the shelves.
Goes to shelves. Picks. Places. Replans if necessary.

3

Motion Planning

Plans and follows a trajectory to pick the object and place it in the basket while avoiding collisions.