

Business Problem:

The objective of business problem is categorizing product images to help a food and groceries retailer reduce human effort in the inventory management process of its warehouse and retail outlets.

In the actual case, a solution such as a powerful image classifier can help the company track shelf inventory, categorize products, record product volume, from raw products images captured in real time by dedicated devices (drones? robots ?). And for sure, being able to identify a product and predict its category from a given picture is part of the deal: we shall train a bot to categorize food & grocery products from images.

Dataset comes with 25 unique labels while we only have 3215 training images; we need to augment the data to prevent our model from over-fitting. You need to test the model on images in the “test” folder of our dataset.

Data Download Link:

https://he-s3.s3.amazonaws.com/media/hackathon/deep-learning-challenge-1/identify-the-objects/a0409a00-8-dataset_dp.zip