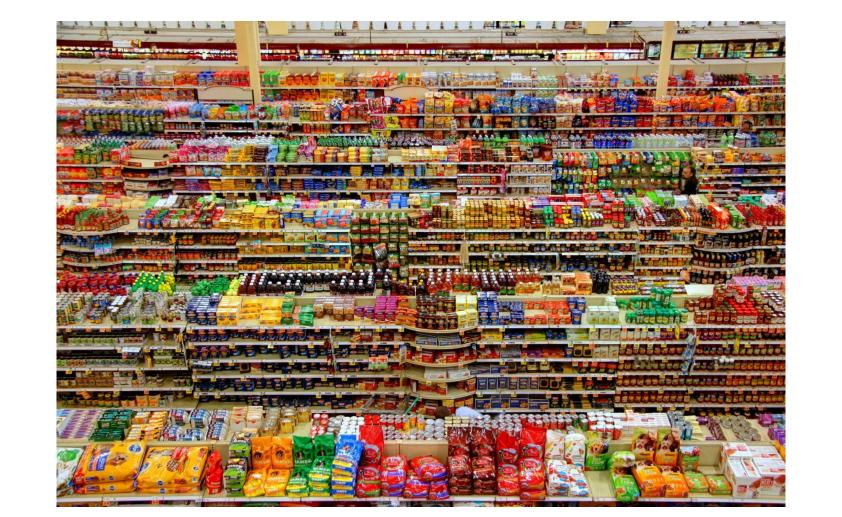
# Computer Vision in Convenience Retail

**Dennis Francis** 



## The Images

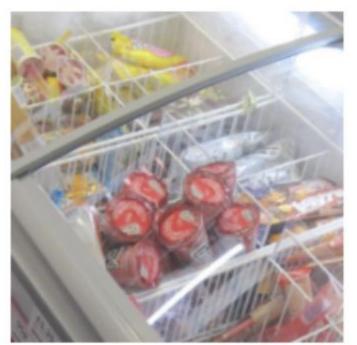
Scraped from the web





#### **Labeled Data**

ice cream



#### cigarettes



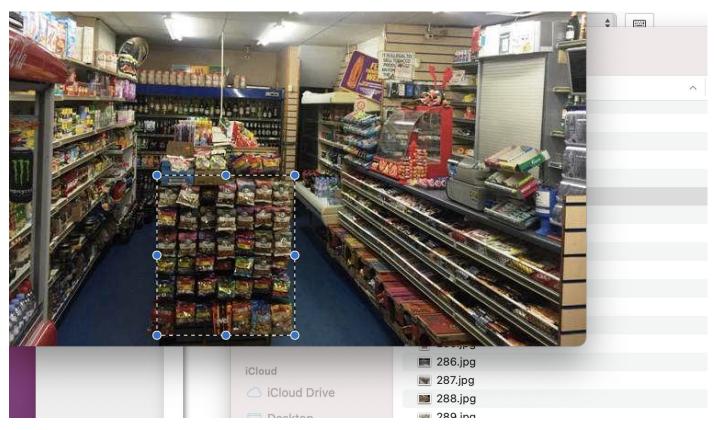
#### Cropping an image



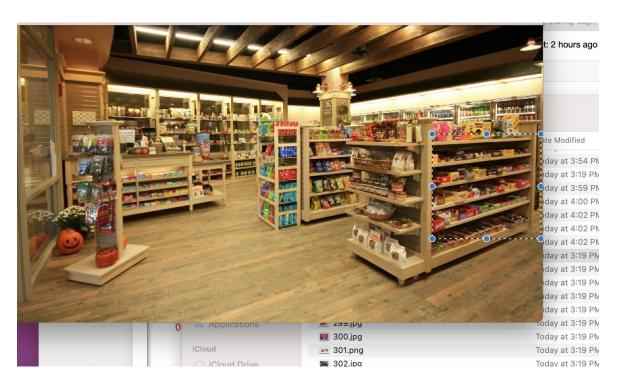
## Cropped Image



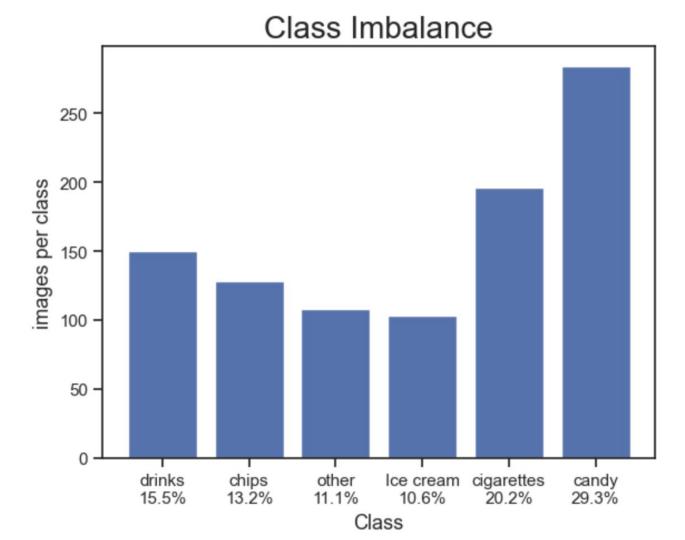
## Creating more data



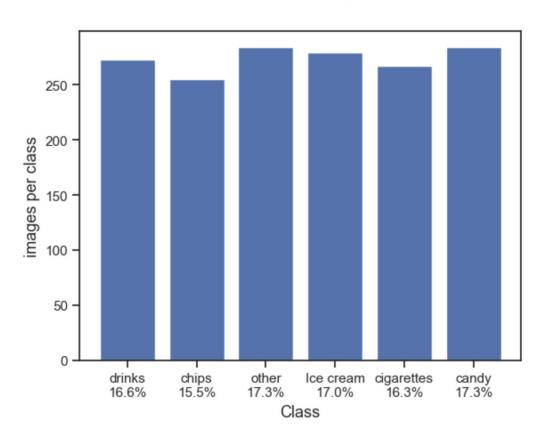
## Creating more data



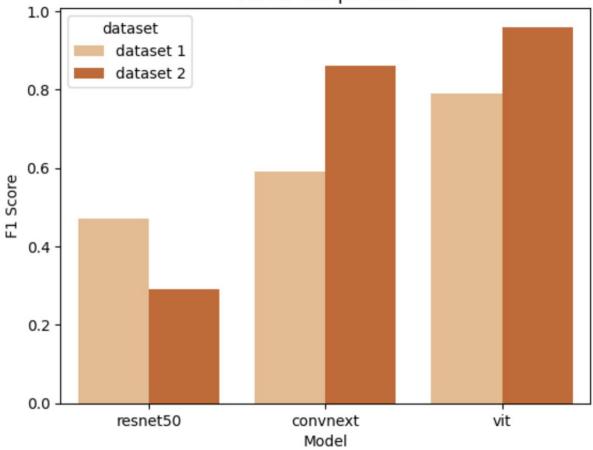




#### The final dataset - 1,321 images







#### Model results

+   model	accuracy	-+   precision	-+   recall	f-1score
ResNet50	0.33	0.44	0.22	0.29
ConvNeXt	0.85	0.84	0.9	0.86
ViT	0.95	0.94	0.92	0.96

