

# IBM zDatathon

Team 108  
Incognito



# Problem Statement

**Accessibility of grocery apps is a challenge for the elderly as they struggle with a large number of icons and features present on a single screen.**

A decorative border on the left and bottom right of the slide features illustrations of various grocery items. On the left, there's a large green leafy vegetable like a beetroot, a whole orange, and a slice of orange. On the bottom right, there's a pretzel, a lemon slice, and a whole lemon. A single green leaf is also visible on the right side.

# Solution

- Grocery apps would appeal more to them if they could just click a picture of the grocery item they want to buy and the order happens automatically.
- This approach would eliminate the need of complex interfaces and provide the end-users with a working product with minimal complexity.
- For the elderly living alone or unable to travel, an application like this would ease their day-to-day lives.



Home Buy Now About Contact

Real Food. Real Health.

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Buy Now

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Scan here!

No file chosen

About us

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Order groceries with just a picture!



Contact

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EMAIL  
customerhelp@veggie.com

PHONE  
+91 8025550114

CONTACT US

Name \_\_\_\_\_ Email \_\_\_\_\_  
Message \_\_\_\_\_

# Website Shots



# Website Working

Buy Now



Scan here!

No file chosen



Buy Now



Scan here!

Label: Cauliflower

No file chosen



# Our Project

**A web application is created using Flask which takes an input of an image(grocery item) and displays the name of the grocery item.**

**In later stages, the name of the grocery item would be mapped to prices and the total amount would be displayed.**

**To identify the grocery items, we have used a neural network model.**

# ML MODEL

The neural network is trained on a dataset of fruits and vegetables. This can be further expanded to other grocery items in the future.

We have used keras library and tensorflow to develop the model. The neural network used is a Sequential model with an accuracy of 95%.

A Sequential model is used for a plain stack of layers where each layer has exactly one input tensor and one output tensor.



# Use of IBM L1CC Platform

To implement the model, we have used the Jupyter notebook present on the LinuxOne Community Cloud platform which enabled faster training of the model.

# Thank You!

