



NutriSnap

A Custom model created and trained using
Azure AI Vision

Submitted By:

Arjit Gautam | Rimjhim Mishra
Deepankar Mandal | Dhiraj Kumawat
Aayush Dhakad

Submitted To:

Mr. Rohit Ranjan Sir



Problem Statement

In the recent times, manual food logging can be time-consuming and challenging, especially for multi-item or complex meals.

Can an AI-driven system automatically recognize food items from images to simplify and enhance dietary tracking?



Problem Statement

If yes, then how?



Solution: NutriSnap

- NutriSnap is a custom image classification model, created and trained using Azure AI Vision.
- It can view, detect and analyse a large amount of food items, categorized under 12 food item categories.



Working behind NutriSnap

- Initially, it leverages the storage account facility of Azure AI, which further consists of **creating a Blob Container**.
- Then the dataset is uploaded in the container in the image format.
- This step is followed by labelling of food items into their respective categories. This labelled data is then exported in the form of a **COCO (Common Object in Context) file** and uploaded to the Blob container.
- Lastly, a model is created and trained with the labelled data by importing the above COCO file.



Conclusion

Thus with the extensive support of a variety of features available in Azure AI services, NutriSnap provides a clear and accurate detection of food items present in the meal.

It streamlines the process of identification of food items using Azure AI Vision.