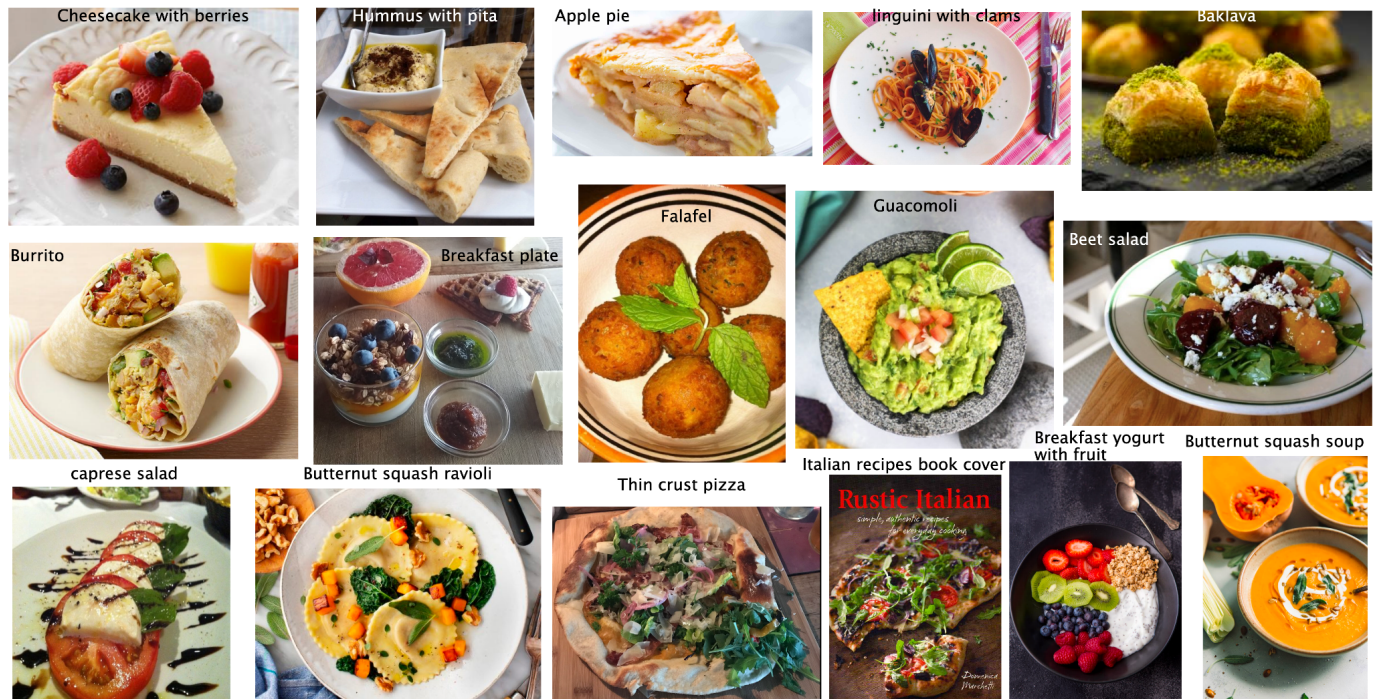


DSI Machine Learning Workshop

[Notes](#)

Unsupervised Learning

Clustering activity



1. Categorize the food items in the image and write your categories. Do you think there is one correct way to cluster these images? Why or why not?

There isn't one correct way as the way varies by the observer.

2. If you want to build a machine learning model to cluster such images how would you represent such images?

Dessert

Salad

Ethnic Food

Categorize the food items in the image and write your categories.

- Sweet vs savoury food
- Comfort food
- Colour

If you want to build a machine learning model to cluster such images how would you represent such images?

- Sweet (fruits, pie) vs Savoury (meat, soup, egg, green salad)
- Cluster based on colour → pixel colour count (R,G,B) values

Dimensionality reduction activity

Large Language Models

Language models activity