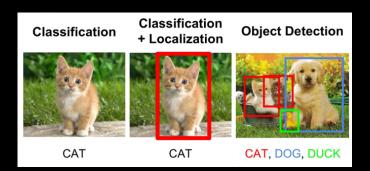
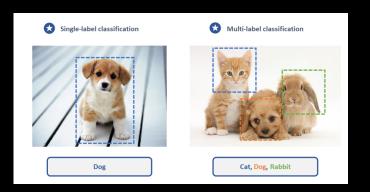
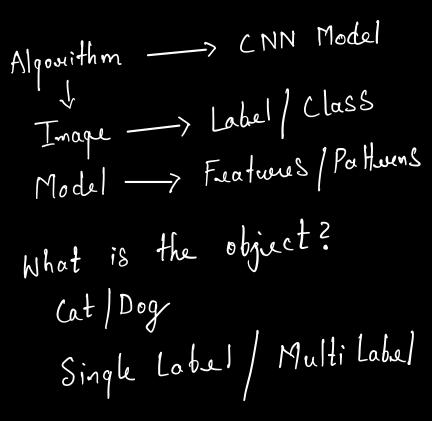
Image classification is a fundamental task in computer vision where an algorithm assigns a label or category to an input image. This process involves training a deep learning model, often a convolutional neural network (CNN), to recognise patterns and features in images to classify them into predefined categories.







Competitions:

- ImageNet Large Scale Visual Recognition Challenge (ILSVRC)
- Kaggle Competitions
- Google Landmark Recognition Challenge

Popular Datasets:

- ImageNet Contains over 14 million images across 1,000 categories.
- CIFAR-10 & CIFAR-100 Small-scale datasets with 10 and 100 classes, respectively.
- MNIST Handwritten digits dataset (0-9) for basic classification tasks.
- Fashion-MNIST Clothing and fashion-related dataset with 10 classes.
- COCO Though primarily used for object detection, it can also be used for classification.
- OpenImages A large-scale dataset from Google with diverse images and labels.

Metrics in Image Classification

Models