## Introduction

Image Classification:

## Steps:

- 1. Pre-processing Rotate and align images
- 2. Feature Selection Measure properties in the image
- 3. Classification Find a threshold that classifies different images

Using multiple features for classification results in a multi-dimensional feature vector. This idea can be extended to higher dimensions. However, a complex model can lead to overfitting the specific dataset.

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Speech Decompitions
```

- Speech Recognition:
  - 1. Pre-processing Digitisation
  - 2. Feature Selection Wave amplitude, frequencies
  - 3. Inference Deep learning, etc. . .