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.

```
[//]: # (column is not supported)

    ![Untitled](e54475e1_Untitled.png)

[//]: # (column is not supported)

    ![Untitled](a680eda9_Untitled.png)
```

Speech Recognition:

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