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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    ![Untitled](2b8786b7_Untitled.png)

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    ![Untitled](e2d8094e_Untitled.png)
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Speech Recognition:

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