

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.

Speech Recognition:

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