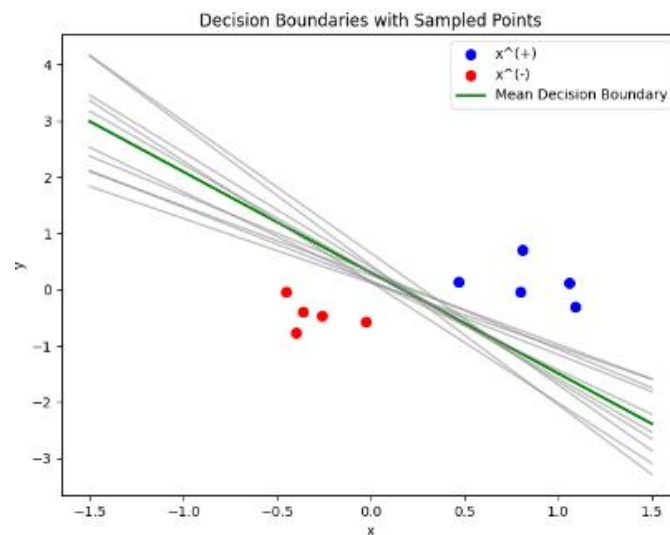


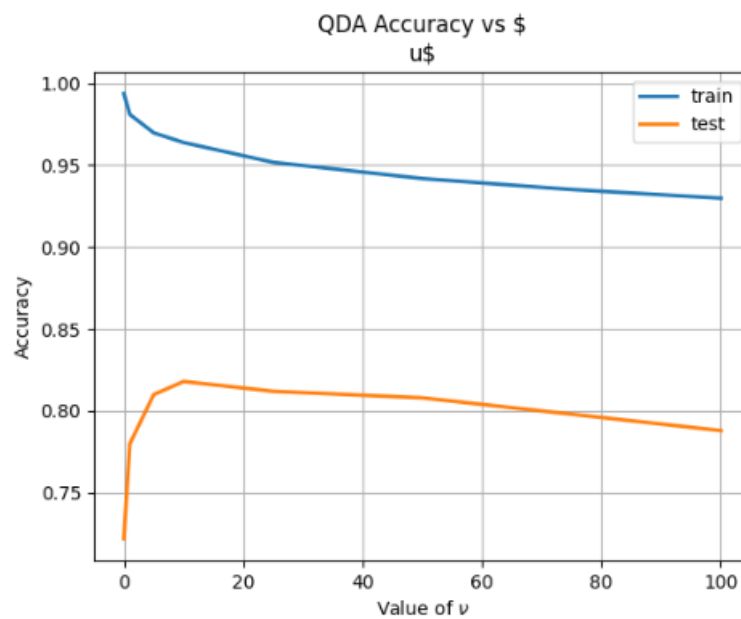
1 Decision Boundaries



The MMSE estimate is the Mean Decision Boundary (in green).

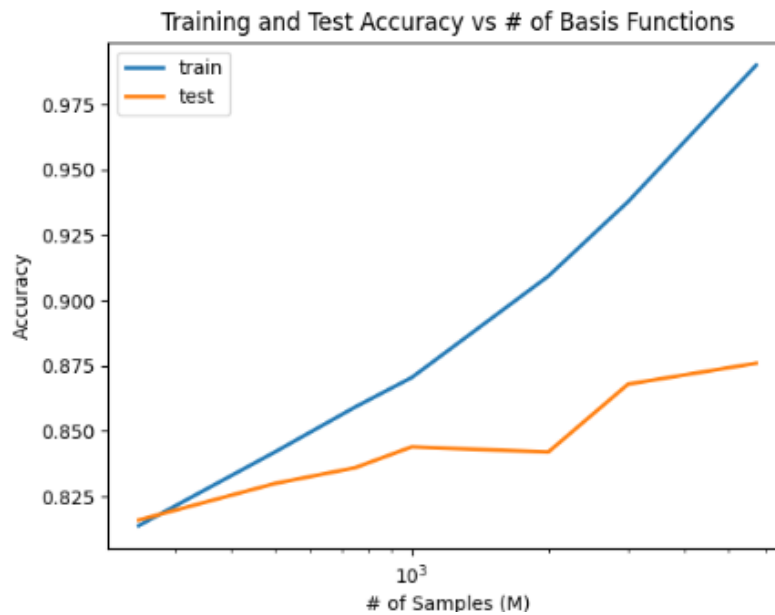
2 Image Classification

2.1 Generative Classification



The test accuracy for $\nu = 0$ is 0.72 and for $\nu = 25$ it is 0.81.

2.2 Discriminative Classification



The test accuracy when using all the training data as basis functions ($M = \text{all}$) is 0.88.



A noticeable difference between the 25 most confident and least confident pictures is that most of the confident pictures contain a dog with white fur and the dog is easily distinguished from its background.