

Classification:  
MNIST



**Regression**

**NNs with a single Hidden Layer**

100 hidden  
neurons

+ L2 Regul.

50 hidden  
neurons

Human Error?

Around 0%

↕ **Avoidable Bias**

Error on Training Set

2 %

1 %

3 %

1 %

↕ **Variance**

*Overfitting!*

Error on Dev/Test Set

17 %

14 %

13 %

14 %