**List of Projects- ANN (Spring 2014)**

1. Hand drawn facial expression

2. Stock market prediction

3. Red & Blue Dots

4. Animal Recognizer

5. Handwritten Character Rec

6. Diabetics Diagnosis

7. Face Recognition

8. Sales Forecasting

9. Hepatitis Determination

***Hand drawn facial expression***

*Classification of facial expressions*: BMP files are used which contain a face that either smiles or is sad.

 

The data set was created by hand using Paint software. Each file of raw training data is

15x18 pixel, 122 bytes long, black-white bitmap belonging to one of the two classes

(smiley face and sad face). About 300 faces are available. Data available from

http://www.generation5.org/content/2004/petras.asp or http://www.neuralforecasting.

com/mlp\_neural\_nets.htm. Output is to classify the Face as smiling or otherwise

***Stock Market Prediction***

Prediction of next day’s high (or low) prices of a given company’s share: The data can be the share’s previous 5 (or 3) days, high, low, close, & turnover; as well as the KSE-100 index high, low, close and turnover. The output will be one real valued neuron

***Red & Blue Dots***

Detection of Red and Blue regions in a picture

***Animal Recognizer***

Classification of an animal into one of 7 categories: Details available at Waikato

University’s website

***Hand Written Character Recognition***

Classification of capital characters (or numerals) written by hand in boxes whose size is fixed

***Diabetics Recognition***

Eight attributes. Dataset from



***Face Recognition***

Classification of faces: Dataset from



***Sales Forecasting***

Input samples (109) available from www.alyuda.com. Each sample represents a week.

***Hepatitis Determination***

Hepatitis is a deadly disease and there are many factors which determine whether the patient would be able to survive the onslaught of the disease or not.