

Python 3.6.4 |Anaconda custom (64-bit)| (default, Jan 16 2018, 10:22:32) [MSC v.1900 64 bit (AMD64)]

Type "copyright", "credits" or "license" for more information.

IPython 6.1.0 -- An enhanced Interactive Python.

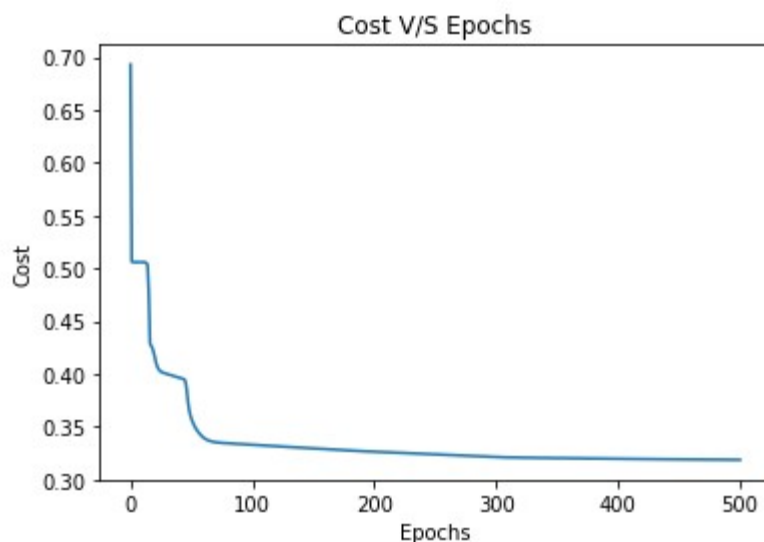
```
In [1]:          'D:/MachineLearning/Machine Learning A-Z/Part 8 - Deep Learning/Section 39 -
Artificial Neural Networks (ANN)/Artificial_Neural_Networks/ANN_College/BankChurn.py'
        = 'D:/MachineLearning/Machine Learning A-Z/Part 8 - Deep Learning/Section 39 - Artificial
Neural Networks (ANN)/Artificial_Neural_Networks/ANN_College'
0% (2 of 500) |                               | Elapsed Time: 0:00:00 ETA:  0:00:31
Network Initialized.....
```

Number of Training samples : 8000  
Number of Features : 11  
Available Activations :  
1.relu  
2.tanh  
3.sigmoid

Training the Deep Network .....  
Initiated.....

Network Dimension : [11, 6, 8, 1]  
Activations : ['tanh', 'sigmoid']  
Alpha : 0.05  
Batch Size : 25  
Epochs : 500

100% (500 of 500) |#####| Elapsed Time: 0:00:32 Time: 0:00:32  
Elapsed time:  
32.434831776314944



N/A% (0 of 500) | | Elapsed Time: 0:00:00 ETA: --:--:--[11, 6, 8, 1]  
Train Accuracy Score: 86.8375 %  
Test Accuracy Score: 86.65 %

K-Fold Cross Validation initiated.....

Alpha : 0.05  
Network Dimension : [11, 6, 8, 1]  
Activations : ['tanh', 'sigmoid']  
Batch Size : 25  
Fold size : 10

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 1 Accuracy Score: 86.25 %

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 2 Accuracy Score: 85.875 %

100% (500 of 500) |#####| Elapsed Time: 0:00:30 Time: 0:00:30  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 3 Accuracy Score: 87.5 %

100% (500 of 500) |#####| Elapsed Time: 0:00:30 Time: 0:00:30  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 4 Accuracy Score: 85.875 %

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 5 Accuracy Score: 87.125 %

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 6 Accuracy Score: 86.25 %

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 7 Accuracy Score: 85.5 %

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:31  
Fold 8 Accuracy Score: 84.875 %

100% (500 of 500) |#####| Elapsed Time: 0:00:30 Time: 0:00:30  
0% (2 of 500) | Elapsed Time: 0:00:00 ETA: 0:00:27  
Fold 9 Accuracy Score: 84.75 %

100% (500 of 500) |#####| Elapsed Time: 0:00:29 Time: 0:00:29  
Fold 10 Accuracy Score: 86.375 %

Accuracy of the model from K-FOLD CROSS VALIDATION: 86.0375

In [2]: