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**Department of Information Technology**

**LAB PRACTICE IV**

**LIST OF LAB ASSIGNMENTS**

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| Sr.No | Title of Assignments |
| 1 | Demonstrate use of tensorflow and pytorch by implementing simple code in python |
| 2. | Demonstrate use of KERAS and Theano by implementing simple code in python |
| 3. | Implement Feedforward neural networks with Keras and TensorFlow MNIST Digit dataset |
| 4. | Implement Feedforward neural networks with Keras and TensorFlow CIFAR dataset |
| 5. | Build image classification model using CNN on fashion MNIST dataset. |
| 6. | Build image classification model using CNN on pneumonia X RAY IMAGE dataset. |
| 7. | Build image classification model using CNN on FOOD dataset. |
| 8 | Build Brain tumor classification model with CNN |
| 9. | Build Recurrent Neural Network by using the numpy library |
| 10 | Implement simple autoencoder to reconstruct MNIST digits. Add sparsity constraint on the encoded representations |
| 11 | Use Autoencoder to implement anomaly detection on credit card dataset |
| 12. | Implement the concept of image denoising using autoencoders on MNIST data set |
| 13. | Implement object detection using Transfer learning on food dataset |
| 14. | Implement image classification using transfer learning on animal dataset |
| 15. | Implement the Continuous Bag of Words (CBOW) Model. |