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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 | Implement Feedforward neural networks with Keras and TensorFlow MNIST Digit dataset |
| 3 | Implement Feedforward neural networks with Keras and TensorFlow CIFAR dataset |
| 4 | Build image classification model using CNN on fashion MNIST dataset. |
| 5 | Build image classification model using CNN on pneumonia X RAY IMAGE dataset. |
| 6 | Build image classification model using CNN on FOOD dataset. |
| 7 | Build Brain tumor classification model with CNN |
| 8. | Build Recurrent Neural Network by using the numpy library |
| 9 | Implement simple autoencoder to reconstruct MNIST digits. Add sparsity constraint on the encoded representations |
| 10 | Use Autoencoder to implement anomaly detection on credit card dataset |
| 11. | Implement the concept of image denoising using autoencoders on MNIST data set |
| 12. | Implement object detection using Transfer learning on food dataset |
| 13. | Implement image classification using transfer learning on animal dataset |
| 14. | Implement the Continuous Bag of Words (CBOW) Model. |