CL - 1

Practical Name	Link	Dataset link (if available)	
ML			
1. Feature Transformation	link	link	
2. Regression Analysis	link	link	
3. Classification Analysis *Using SVM* (new)	link		
4. Clustering Analysis	link	link	
5. Ensemble Learning	link	link	
DMV			
6. Data Loading, Storage and File Formats	link	link	
7. Interacting with Web APIs	link		
8. Data Cleaning and Preparation	link	link	
9. Data Wrangling	link	link	
10. Data Visualization using matplotlib	link	link	
11. Data Aggregation	link	link	

CL - 2

Practical Name	Link	Dataset link (if available)	
IR			
1. Write a program for pre-processing of a text document such as stop word removal, stemming.	link		
2. Implement a program for retrieval of documents using inverted files.	link		
3. Implement e-mail spam filtering using text classification algorithm with appropriate dataset.	link	link	
4. Implement Page Rank Algorithm. (Use python or beautiful soup for implementation).			
5. Implement Agglomrative hierarchy	link		
IIOT			
6. Write a program for sending alert messages to the user for controlling and interacting with your environment.	link		
7. Write an Arduino/ Raspberry pi program for interfacing with PIR sensor Experiment	link		
8. Write a program for sending sensor data to the cloud and storing it in a database	link		

9. Write a program for implementing security measures in an IIoT system	link		
10. Write a program for performing industrial data analysis using relevant tools and techniques			