BDA Lab Practical's List

Practical No.	Title of the **Regular Experiments**	Topics to be highlighted	CO Map		Link for study
1	Set up a Hadoop cluster and verify its functionality.	Hadoop	CO1	Hadoop and HDFS Fundamentals on Cloudera.	https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01384359222148300841533_shared/overview
2	Create directories and files in HDFS and perform read/write operations	HDFS	CO2	Working with Files in Hadoop HDFS	https://infyspringboard.onwingspan.com/web/en/viewer/html/lex_auth_0135015 9487646105612940
3	Develop and execute a simple MapReduce program to count word occurrences in a text file.	MapReduce	CO2	Developing a Basic MapReduce Hadoop Application	https://infyspringspan.com/web/en/app/toc/lex_auth_0135015571521044487374/overview https://www.youtube.com/watch?v=uH5y6nTo_04&ab_channel=MaheshHuddar
4	To install and configure MongoDB to execute NoSQL commands	NoSQL	CO3	NoSQL and MongoDB	https://infyspringspan.com/web/en/app/toc/lex_auth_01384184919629004855481_shared/overview
5	Data Stream Algorithms Implementation (any one): DGIM/ Bloom Filter / Flajolet Martin	Mining Data Streams	CO4	DGIM/ Bloom Filter / Flajolet Martin	https://www.analyticsvidhya.com/blog/2021/06/beginners-guide-to-flajolet-martin-algorithm/ https://www.youtube.com/watch?v=vrqPZUGQG9A
6	Community detection algorithm	Any Lang	CO5	Girvan Newman Algorithm	https://www.youtube.com/watch?v=2KHfVp8HN_g https://www.youtube.com/watch?v=F4RVBAGJcFY
7	Social Network Analysis	R	CO6		https://www.youtube.com/playlist?list=PL4iQXwvEG8CQSy4T1Z3cJZunvPtQp4dRy
8	Mini Project: One real life large data application to be implemented.	Mini Project	All		_