**Big Data Course**

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Introduction to Python.

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Advanced Concepts of Python.

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Introduction to Big Data and HDFS.

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Introduction to MapReduce

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Demo MapReduce in action.

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Introduction to Hive.

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Hands-on on Hive.

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Bucketing and Partitioning in Hive, Introduction to Spark.

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Introduction to File formats, Hive Server, RDD.

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Core Concepts of Spark: Spark Context, Cluster Manager.

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Hands-on on RDD operations.

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Caching in spark, Broadcast Variables, Accumulators, Spark Submit.

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Caching in spark, Broadcast Variables, Accumulators, Spark Submit, Use Cases.

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Discussion on Use Cases of Keys.

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Optimizations in Spark SQL.

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Introduction to DataFrames, Advanced operations on DataFrames.

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Spark RDD Use Cases, Structured Streaming.

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Structured Streaming Continuation, Introduction to Kafka, Addressing challenges of stream processing with Apache Spark.

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Architecture of Kafka.

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Advanced concepts of Kafka.

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Kafka continuation, Avro file formats

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Schema Registry and its practical aspects.

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Kafka concept, KSQL.

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KSQL continuation, KStreams.

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Spark Streaming, Spark Structured Streaming, Watermarking, implementation of windows, sliding windows.

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Use Case Discussion.

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Use Case Continuation.

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Spark Core.

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Cloud Computing, Introduction to AWS.

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AWS EC2, Hands-on on EC2.

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Introduction to IAM and S3.

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Database in AWS.

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Connection to AWS || Hands-on.

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AWS Lambda, AWS EMR || Architecture.

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Continuation AWS Lambda’s || Demo.

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Apache Hbase.

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Use case on Spark Streaming.

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Use case on KSQL.

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Use case on MySQL.

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Discussion on use cases.