



Sri Vyra Cohort A25

Phase 1 – Foundation (Weeks 1–6)

Objective: Build strong fundamentals in Hadoop, Hive, Sqoop, SQL & Python.

Week	Date	Day	Session 1 (8:30–9:45)	Session 2 (10:00–11:30)
1	Aug-24	Sun	Orientation + Big Data Overview	Hadoop Basics + Ecosystem Introduction
2	Aug-30	Sat	Hadoop Deep Dive – Architecture	HDFS Concepts + Block Storage
2	Aug-31	Sun	Linux Basics for Hadoop (File ops, users, perms)	Linux Advanced + Common Admin Commands
3	Sep-06	Sat	Hadoop CLI Commands	HDFS Hands-on (Put/Get/Copy/Move/Delete)
3	Sep-07	Sun	Hadoop Daemons & Cluster Setup Basics	Hadoop Job Execution Lifecycle



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4	Sep-13	Sat	Sqoop Basics + Import/Export	Sqoop Advanced (Incremental, Joins, Eval)
4	Sep-14	Sun	Hive Overview + Architecture	Hive DDL (Create DB, Tables, Partitions)
5	Sep-20	Sat	Hive DML (Insert, Select, Joins)	Hive Functions + Optimization
5	Sep-21	Sun	Python Basics (Variables, Datatypes, Operators)	Python Flow Control (if, loops, functions)
6	Sep-27	Sat	Python Collections + File Handling	Python OOPs (Class, Objects, Inheritance)
6	Sep-28	Sun	SQL Basics (DDL, DML, Joins)	SQL Advanced (Window Functions, Subqueries)



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Phase 2 – Game Changer (Weeks 7–12)

Objective: Master Spark Core, RDD, DataFrames, SQL, and Cloud Deployment.

Week	Date	Day	Session 1 (8:30–9:45)	Session 2 (10:00–11:30)
7	Oct-04	Sat	Spark Introduction + Spark Architecture	Spark Core Concepts
7	Oct-05	Sun	RDD Basics (Create, Transform)	RDD Actions (Collect, Count, Save)
8	Oct-11	Sat	Transformations (map, filter, flatMap)	Transformations Advanced (reduceByKey, groupByKey, join)
8	Oct-12	Sun	Actions in Depth (count, reduce, aggregate)	RDD Persistence + Caching



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9	Oct-18	Sat	Spark Execution Model (Stages, Tasks, DAG)	Spark Memory Management
9	Oct-19	Sun	Spark DataFrames – Basics	DataFrames Advanced (Joins, GroupBy, Agg)
10	Oct-25	Sat	Spark SQL – Writing Queries	Spark SQL Advanced (Window Functions, Optimization)
10	Oct-26	Sun	File Processing (CSV, JSON, Parquet)	Hands-on Data Processing Projects
11	Nov-01	Sat	Spark with Hive Integration	Spark with SQL Integration
11	Nov-02	Sun	Deploying Spark Jobs	Spark Monitoring & Logging
12	Nov-08	Sat	Cloud Concepts Overview	Spark Deployment on AWS EMR
12	Nov-09	Sun	Spark Deployment on Azure Databricks	Spark Deployment on GCP Dataproc



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Phase 3 – Advanced + Job Hunt (Weeks 13–18)

Objective: Hands-on with AWS, Azure, GCP, Job Preparation & Mock Interviews.

Week	Date	Day	Session 1 (8:30–9:45)	Session 2 (10:00–11:30)
13	Nov-15	Sat	AWS S3 (Buckets, Permissions)	AWS EC2 (Setup, Access, SSH)
13	Nov-16	Sun	AWS EMR (Cluster Setup, Jobs)	AWS Glue (Crawler, ETL Basics)
14	Nov-22	Sat	AWS IAM (Users, Roles, Policies)	AWS Athena (Query S3 Data)
14	Nov-23	Sun	AWS Redshift (Data Warehousing)	AWS SNS + SQS (Messaging, Notifications)
15	Nov-29	Sat	Azure Overview + Resource Groups	Azure Storage + Azure Databricks



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15	Nov-30	Sun	Azure ADF (Pipelines, Triggers)	Azure Synapse + Monitoring
16	Dec-06	Sat	End-to-End Project (AWS + Spark + Hive)	Project Continuation (Data Pipeline)
16	Dec-07	Sun	End-to-End Project (AWS + Spark + Hive)	Project Continuation (Data Pipeline)
17	Dec-13	Sat	End-to-End Project (AWS + Spark + Hive)	Project Continuation (Data Pipeline)
17	Dec-14	Sun	Project Wrap-Up	Resume Preparation Workshop
18	Dec-20	Sat	Mock Interview Round 1	Mock Interview Round 2
18	Dec-21	Sun	Interview Q&A + Career Guidance	Final Review + Course Wrap-Up