



Progress Report – Byte-wise limited

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Sessions + Tools and technology

- Azure Databricks
- AWS



Learning Progress

Learning Progress throughout three months

Learning Week 1 - 2

Week	Topic	Learning
1	SQL (Basic to Advance)	<ul style="list-style-type: none">• SQL Functions (multiple SQL functions built-in and advanced)• Joins & Unions in SQL• SQL Group By & Sum Over()• DML, DQL and DDL, sub-queries, Views & stored Procedures• UDF (user defined functions) in SQL.
2	Data Engineering concepts (basics to advance)	<ul style="list-style-type: none">• Data Engineering basics, End-to-end architecture• Role of a Data Engineer• Data Warehouse, Data Lakes, and Delta lakes• Bronze / Silver / Gold layers• ETL tools• Data Staging layer, Data Curation layer, Data presentation layer

Learning Week 3 - 6

Week	Topic	Learning
3	Udemy Databricks Course	<ul style="list-style-type: none">• Azure Databricks• Databricks Clusters, Notebooks• Mounting Data Lake Container to Databricks• Spark Cluster• Data Ingestion – CSV, JSON, Multiple files• Practical implementation
4	Udemy Databricks Course	<ul style="list-style-type: none">• Databricks Workflows• Filter & Join Transformations• Aggregation• Spark SQL – Database, Tables, Views, Filters, Joins, Aggregations, Analysis

Learning Week 5 - 6

Week	Topic	Learning
5	Databricks	<ul style="list-style-type: none">• Databricks Machine Learning - completion Certificate• Databricks Lakehouse Platform - Completion Certificate• Databricks SQL - completion Certificate• Databricks Accredited Lakehouse Fundamentals - Certificate
6	Slowly changing dimensions	<ul style="list-style-type: none">• Slowly changing dimensions (SCD)• Types of SCD• Change data capture (CDC)• Implementations of SCD solution

Learning Week 7 - 8

Week	Topic	Learning
7	AWS Course videos	<ul style="list-style-type: none">• AWS Certified Cloud Practitioner Training 2020 - Full Course• Registration for Azure certification• Working with AWS Glue Studio
8	AWS practical implementation	<ul style="list-style-type: none">• AWS account creation• Ingest Data to s3 bucket• ETL on data stored in s3• concepts of Glue Studio• HackerRank SQL (Basic and intermediate Level) Certificates

Learning Week 9 - 10

Week	Topic	Learning
9	AWS Glue Services	<ul style="list-style-type: none">• ETL using Glue.• Custom SQL transformation• Job using Multiple Source and its transformation using join• Azure Fundamentals Session Day 1 and Day 2
10	Azure Sessions	<ul style="list-style-type: none">• Azure Data Fundamentals Session Day 1 and Day 2• Databricks Platform Administrator Accreditation Session• Az-900 Course

Learning Week 11 - 12

Week	Topic
11	<ul style="list-style-type: none">• Microsoft Certified-Azure Fundamentals
12	<ul style="list-style-type: none">• Microsoft Certified-Azure Data Fundamentals



Achievements

Achievements throughout three months

Achievements

- Data Lakehouse Fundamentals Certificate
- HackerRank SQL Basic Level Certificate
- HackerRank SQL intermediate Level Certificate
- Microsoft Certified-Azure Fundamentals
- Microsoft Certified-Azure Data Fundamentals



Sessions + Tools and technology

Sessions throughout three months

Sessions

- Microsoft Azure Virtual Training: Data Fundamentals (2 day session)
- Microsoft Azure Virtual Training: Fundamentals (2 day session)
- Databricks Platform Administrator - ILT Training

Technology and Tools

- SQL
- Spark
- Azure Databricks
- AWS + AWS Glue



Courses

Courses throughout three months

Courses

- Azure Databricks for Data Engineers - Udemy
- Databricks Machine Learning - completion Certificate
- Databricks Lakehouse Platform - Completion Certificate
- Databricks SQL - completion Certificate
- Databricks Accredited Lakehouse Fundamentals – Certificate
- Microsoft Azure Fundamentals (AZ-900) Full Course - Adam Marczak - Azure for Everyone
- AWS Certified Cloud Practitioner Training 2020 - Full Course



Thank You!