

**Driving Excellence:
Your BI and AI Journey Starts Here!**



Data Analyst (Power BI + MS Fabric)



Power BI



Microsoft Fabric

Course Duration
5.5 Months

Batches
Weekends/Daily

Mode
Online(Zoom)

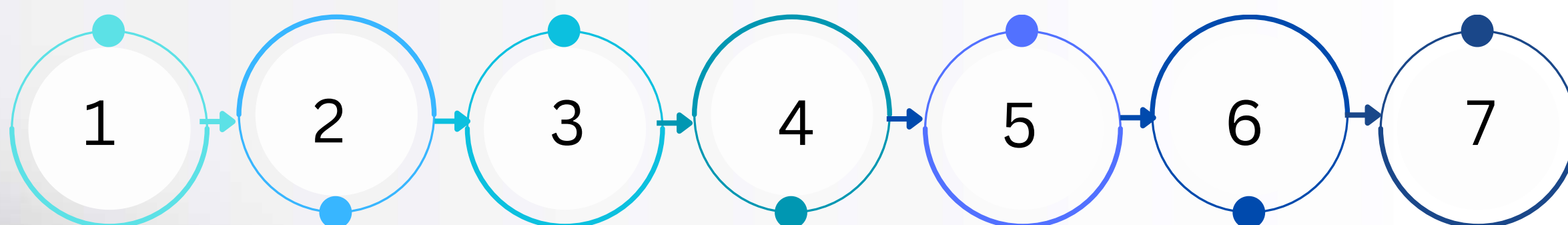
Technologies

SQL
(Basic + Advance)

PySpark

Power BI
Admin

End to End Project

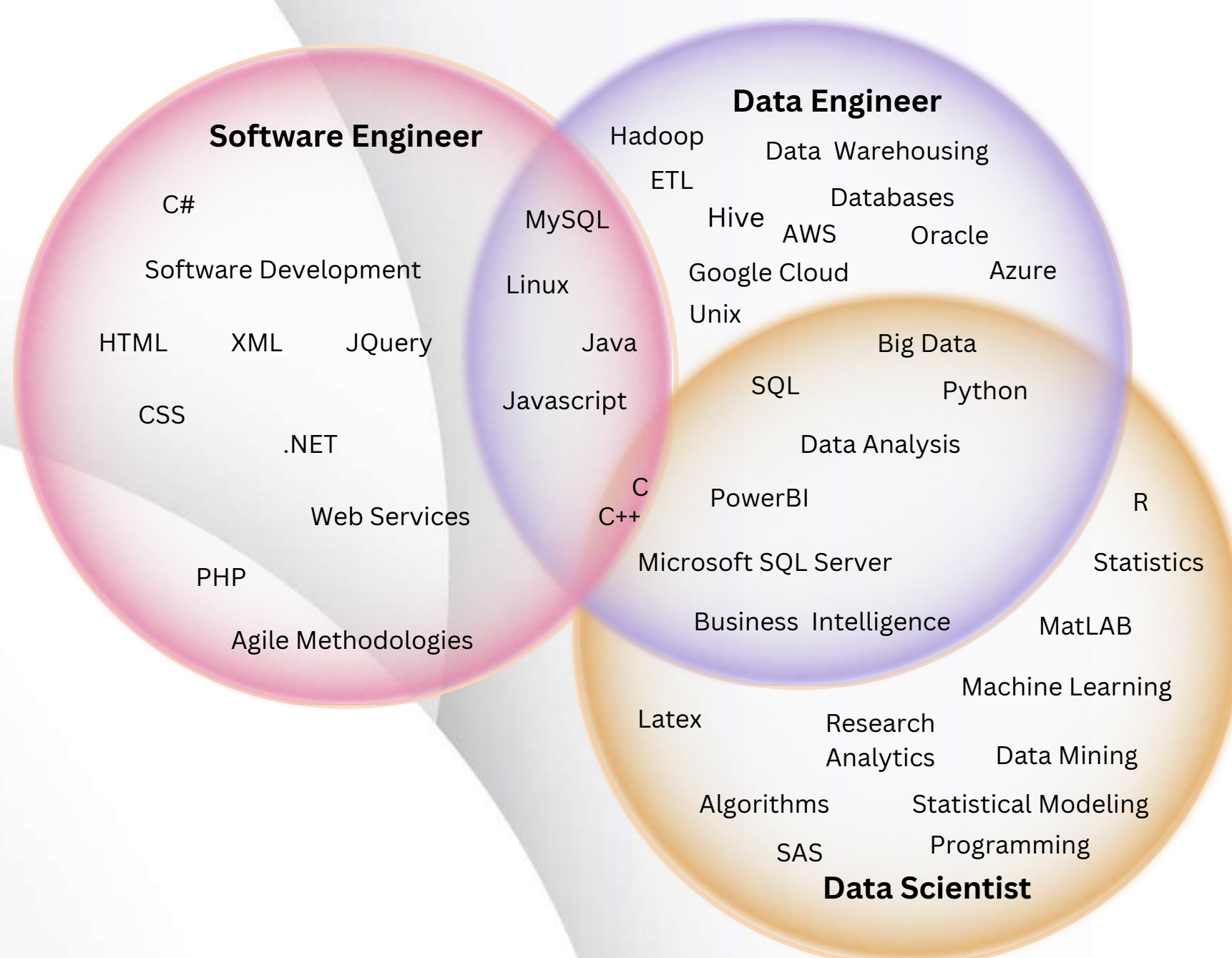


Python

Power BI
Developer

Microsoft
Fabric

Skills And Qualifications



Introduction

SQL Type

- DDL
- DML
- TCL
- DCL
- DQL

Constraints

- Primary Key
- Unique
- Foreign Key
- Check
- Default
- NOT Null

Clause

- DISTINCT
- WHERE
- ORDER BY
- GROUP BY
- HAVING

Operators

- IS NULL
- LIKE
- BETWEEN
- IN

Functions

- String
- Date
- Numeric
- Conversion
- Aggregate

Joins

- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Cross Join
- Self Join

Subqueries

- Single-row subqueries
- Multiple-row subqueries
- Correlated subqueries

Set Operator

- Union All
- Union
- Intersect
- Minus

Views

- Simple View
- Complex View
- Materialized views

Indexes

- B-Tree Indexes
- Bitmap Indexes
- Function Based Indexes

Analytical Functions

- RANK
- DENSE_RANK
- ROW_NUMBER
- FIRST_VALUE,
- LAST_VALUE
- LAG
- LEAD

Advanced SQL

- PIVOT
- UNPIVOT
- PARTITIONS

PLSQL

- Stored Procedure
- Stored Function

Python

- Setup Python
- "Hello world"
- Datatypes-Numbers, Strings, Boolean
- String Functions: Indexing, Slicing
- Print Formatting with Strings
- Variables
- Operators
- List
- Dictionary
- Tuples
- Sets in Python
- If, Elif and Else
- For Loops
- While Loops (including break and continue, Pass)
- Functions and Recursions
- Local and Global variable
- Error and Exception Handling

Pandas And Numpy

- Create Pandas DataFrame
- Numpy Array Operations
- Pandas DataFrame Operations

Spark

- Why Spark?
- Spark Unified Stack
- Spark Architecture
- Spark APIs
- SparkSession
- DataFrames
- Transformations, Actions & Lazy Evaluation
- Spark UI

Spark SQL

- Spark Structured APIs
- DataFrames & Datasets
- Spark SQL Types
- Spark SQL Code Execution
- DataFrame Operations
- DataFrame Aggregation Functions
- Grouping, Windows & Joins
- Spark SQL Data Sources

Spark Streaming

- Introduction to Spark Streaming
- PySpark Streaming with Apache Kafka
- Real-world Practical use cases
- Operations On Streaming Dataframes and Datasets
- Window Operations

Introduction

- Installation
- Workflow
- Comparision of Power BI Vs Excel and Power BI vs Tableau etc.
- how Power BI become Popular?
- Overview
- Architecture
- What is BI?
- BI Architecture Flow

Connecting & Shaping Data

- Connecting to source data
- shaping and transforming
- Merge Queries
- Append Queries
- date related transformations
- Column related transformations
- M Query overview
- Advanced editor
- Duplicate
- Reference
- Creating static and dynamic parameters
- Data profiling

Creating a Data Model

- Building relational models
- Creating table relationships
- Understanding cardinality
- Exploring filter flow
- create start schema
- Snowflake Schema From Flat Schema
- Role Playing Dimension

Adding Calculated Fields with DAX

- Understanding DAX syntax
- Adding calculated columns and Measures
- writing common formulas and functions
- DAX filter context
- Row context
- Filter context
- Date functions
- Text functions
- Iterative functions
- Time intelligence functions
- Creating date table

Visualizing Data with Reports

- Inserting charts and visuals
- customizing formats
- editing,
- conditional formatting,
- selection of right visuals as per data,
- interactions,
- applying filters and bookmarks, etc.
- Page Navigation,
- URL Configuration,
- Inserting buttons, images,
- sorting of columns,
- creating hierarchy, create groups

Row Level Security

- Creating role as per security requirement
- Manage role
- View as role

Introduction

- Overview
- Interface
- Account tiers & user personas
- Interface
- Building blocks
- Creating and Managing workspaces

Administration

- Review administration roles & types
- Admin settings & options
- Tenant settings
- Adoption Report creation and Management
- Capacity Metrics Utilisation
- Workspace and App management
- Subscription Management
- User management

Connecting to Data

- Connect data to Power BI Service
- Explore features
- 1. Gateways
- 2. Dataflows
- 3. Scheduled refresh
- 4. Deployment pipeline

Reports & Dashboards

- Create reports & dashboards
- Explore Tools
- 1. Data driven alerts
- 2. Q&A
- 3. Quick insights

Sharing & Collaboration

- Share workspaces & collaborate with your team
- Publish apps
- Publish to web

Row Level Security

- Test static & dynamic roles data

Premium/Pro/Free License

- Review core functionality
- Features
- Considerations
- Use cases of Power BI licenses

Microsoft Fabric

- Data Factory
- Notebooks
- Synapse
- Power BI
- Copilot AI



Our Alumni Work in Top Companies

