



Cinute Digital Pvt.Ltd

DATA ANALYTICS WITH BI AND BIG DATA ENGINEERING MASTER PROGRAM

(Advanced Certification Program)

⌚ Duration 155 Hours / 5.5 Months

This Master Program is crafted to make you an expert in Python and Excel visualizations, data analytics with Power BI and Tableau, database management, and Big Data Engineering using Hadoop, Apache Spark, and Databricks.

Why Join Us?



Why Data Analytics with BI & Big Data Engineering master program ?

If you have been considering getting into Data Analytics, now is the time to start. Business Analyst jobs are becoming increasingly in demand as big data and technology industries grow. As you must be curious about what is this field all about. Business analysts identify business areas that can be improved to increase efficiency and strengthen business processes. They often work closely with others throughout the business hierarchy to communicate their findings and help implement changes.

With a background in BI & Big Data, you can get a high-paying job as a powerBI Engineer, Data visualization expert, Business Intelligence Developer, Tableau Developer, Data Analyst, Big Data Engineer, Spark Developer and various other profiles.

Expectations & Goals

- 1 This Course will make you a Proficient Data Analyst.
- 2 At the end of this course, you will have a solid understanding of Tableau, PowerBI, Excel concepts used for Business Intelligence & Data Visualization on Real Projects..
- 3 Complete Understanding of Data visualization using Matplotlib, Seaborn & Tableau.
- 4 Comprehensive understanding of SQL, Linux, Hadoop and spark
- 5 Practical exposure to various projects to hone hands-on expertise.

Data Analytics with Tableau

Introduction to Data visualization

- What Is Data visualization?

Introduction to Business Intelligence

- What Is Business Intelligence?
- Why Business Intelligence?
- Tools used for Business Intelligence

Tableau Basics

- Data Connection
- Tableau Interface and 14 Basic Chart Types
- Dimensions and measures

Tableau Intermediate

- Working with Metadata
- Calculated field
- bins and parameters
- Mapping
- Calculations

Tableau Dashboard and story

- Customer segmentation project

AI in tableau

- Group
- clustering
- Forecasting

Data Analytics with Power BI

Transform data using power query editor

- M- code and applied steps
- How to load data from csv, excel
- Load data from folder
- Conditional columns
- Transform vs add column

Course Curriculum

Creating relationship model

- What are powerBI relationship
- Model View
- Star vs snowflake model
- bi- directional filters

DAX

- calculated columns vs measure
- Implicit vs explicit measure
- SUMX()
- Calculate()
- ALL()
- Date time functions

Creating interactive Dashboard

- Matrix
- KPI
- Line chart
- Forecasting
- Gauge
- Maps

Data Visualization in Excel

- Pivot, filter and freeze
- Data visualization using Excel
- Statistics using Excel

Data Visualization in Python

NUMPY

- Introduction to Numpy
- NumPy Array
- Array Attributes
- Array Methods

PANDAS

- Introduction to Pandas
- Pandas Series
- Accessing Series Elements
- Pandas Data frame – Introduction
- Data frame Creation
- Reading Data from Various Files
- Accessing Data frame
- Data frame Sorting
- Data frame Concatenation
- Data frame Joins
- Data frame Merge

- Reshaping Data frame
- Data frame Operations
- Data frame methods - head(), tail, dType, shape, get_dummies
- Checking Duplicates
- Dropping Rows and Columns
- Replacing Values
- Missing Value Analysis & Treatment

VISUALIZATION USING MATPLOTLIB

- Plot Styles & Settings
- Line Plot
- Multiline Plot
- Matplotlib
- Subplots
- Histogram
- Boxplot
- Pie Chart
- Scatter Plot

VISUALIZATION USING SEABORN

- Strip plot
- Distribution plot
- Joint plot
- Violin plot
- Swarm plot
- Pair plot
- Count plot
- Heatmap

Database Management System using MySQL

Introduction to DBMS

- What is DS/ AI/ MI with examples
- ML Types
- Algorithm vs model
- Using Google colab

What is MySQL?

Installation of MySQL.

Overview of PostgreSQL

Different Clauses in MySQL

- The SELECT Clause
- The WHERE Clause
- The AND, OR, and NOT Operators
- The IN Operator

- The BETWEEN Operator
- The LIKE Operator
- The REGEXP Operator
- The IS NULL Operator
- The ORDER BY Clause
- The LIMIT Clause
- The GROUP BY Clause
- The HAVING Clause
- ML Types
- Algorithm vs model
- Using Google colab

Operators in MySQL

- Arithmetic Operators
- Concatenation Operator
- Comparison Operators
- Relational Operator
- Logical Operator
- Special Operator

TYPES OF JOINS.

- Inner Joins
- Joining Across Databases
- Self Joins
- Joining Multiple Tables
- Compound Join Conditions
- Implicit Join Syntax
- Outer Joins
- Outer Join Between Multiple Tables
- Self-outer Joins
- The Using Clause In Joins
- Natural Joins
- Cross Joins
- Unions

SUB-QUERY

DATA DEFINITION LANGUAGE (DDL)

- Create
- Rename
- Alter
- Truncate
- Drop

Course Curriculum

Data Manipulation Language (DML)

- Insert
- Update
- Delete

Transaction Control Language (TCL)

- Commit
- Rollback
- Savepoint

Data Control Language (DCL)

- Grant
- Revoke

SQL Objects

- Tables
- Views
- Stored Procedures
- Functions
- Triggers

Big Data Engineering with Hadoop

Introduction to linux

- Installing and understanding linux
- VMware
- Redhat vs Ubuntu

Linux(Ubuntu) basics

- ubuntu directories
- ubuntu commands

Introduction to big data

- Big Data definition
- Volume, Velocity and variety

Introduction to hadoop

- Hadoop installation
- Modes of hadoop installation
- Hadoop installation directly using Cloudera quickstart VM

Hadoop component

- HDFS
- MAPReduce
- Yarn
- Hadoop 1.0 vs Hadoop 2.0 vs Hadoop 3.0

Hadoop Tools beginner

- Hive (HiveQL)
- Pig (PigLatin)

Hadoop Tools Advance

- Sqoop
- Hbase

Big Data Engineering with Apache Spark & Databricks

Introduction to Apache Spark and Databricks

- Overview of Big Data and Spark
- Introduction to Databricks
- Setting up Databricks Environment

Spark Basics

- RDDs (Resilient Distributed Datasets)
- Transformations and Actions
- Caching and Persistence

Spark SQL and DataFrames

- Introduction to Spark SQL
- Working with DataFrames
- SQL Queries in Spark

Spark Programming with Scala

- Broadcast variables and accumulators
- Setting up a Spark application with Scala
- Working with key-value pairs in Spark

Advanced PySpark Programming

- PySpark machine learning library (MLlib)
- Integrating PySpark with external libraries

Tools & Technology Covered

Master the art of Data not just Science with our comprehensive suite of Tools and Technologies, designed to elevate your skills.



Power BI



python™



Tools & Technology Covered

Master the art of Data not just Science with our comprehensive suite of Tools and Technologies, designed to elevate your skills.



Apache Pig



databricks



PostgreSQL



hadoop

APACHE
Spark™



DATA ANALYTICS WITH BI & BIG DATA ENGINEERING MASTER PROGRAM

Fees

₹ 1,10,000

Certifications With Course

1.

Data Analytics with
PowerBI

2.

Data Analytics with
Tableau

3.

Database
Management
System using
MySQL

4.

Big Data
Engineering with
Hadoop

5.

Data Visualization
in Python

6.

Data Visualization
in Excel

7.

Big Data Engineering
with Apache Spark &
Databricks

8.

Data analysis with
BI & Big Data
Engineering
Master Program
AAA Certificate



AAA Accredited Training
& Education Provider
Certificate No: TP24821



GASQ

GASQ Accredited
Exam Centre



ISTQB

ISTQB Exam Centre



ACTD Accredited
Professional Training
Institution





Cinute Digital Pvt.Ltd

Admission Process



Get in Touch



Eligibility

1. This course is structured for any undergraduate or job seeker who wants to start his career in Data Analytics, Big Data or Business Intelligence field.
2. Any working professional with experience in the non-IT domain and looking to enter the IT field.
3. Any Fresh graduate or post-graduate looking to secure a career in the IT domain.

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