LITZ TECH

India Private Limited

Empowering Business Globally

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ISO 27001:2005

CERTIFIED ISO 9001:2015 COMPANY

WE DON'T JUST EDUCATE

WE PROVIDE 100%

PLACEMENT ASSISTANCE

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Trainers have 13+ years experience

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www.litztech.in

DATA ANALYTICSTRAINING

WHY LITZ TECH?

Learn IT Zone is a pioneer in facilitating education using breakthrough technologies. With dedicated teams academic experts, the company has been on the forefront of heralding the next advancement in learning, thus becoming a distinctive player in bridging geographical and cultural borders, we are well connected with the networks of colleges and IT solutions. LITZ TECH INDIA PVT LTD recruits well performing students of Learn IT Zone that provides an effective career.

KEY FEATURES

- Train from professionals with industry experience
- Learn theoretical concepts and gain hands-on training simultaneously
- Real time Hands-On Practical Experience Training to imbibe corporate practices
- Get certified at the end of the training
- Receive placement support once the training is completed
- Getting exposure to latest technology up gradations.
- Advanced lab facility and most updated syllabus and materials will be provided with learning tools for easy learning
- You will have the access to contact the trainers at any time.

Data Analytics Course Syllabus

PYTHON BASICS

INTRODUCTION

- Installation and Setting up the path
- Features
- Python variables
- Input & Output and Import
- Why Learn Python
- Who used Python
-

DATA TYPES

- Basic Data types: int, float, string, Boolean and Complex
- Numbers and String
- Tuple and List
- Dictionary and Set
- Arrays

BUILT IN FUNCTIONS

- String, String slices
- Date
- Math
- Random and Statistics
- PDF Data Extraction
- CVS module

TUPLES

- Introduction to Tuples
- Working with Tuples
- Tuple Operations
- Function and Methods

LISTS

- Introduction to Lists
- Working with lists
- Lists Operations
- Function and Methods

SETS

- Introduction to Sets
- Working with Sets
- Sets Operations
- Function and Methods

FLOW CONTROL

- If…else
- Elif
- For, for else, while
- Break and Continue, Pass
- Looping Techniques

FUNCTIONS

- Function Arguments
- Recursion
- Anonymous Function
- Global, local and Nonlocal
- Lambda Functions
- Modules
- Packages

FILE HANDLING

- Manipulating File Pointer
- Type of Files
- File Operations
- Directories
- File I/O Attribues, File Methods

EXCEPTION HANDLING

- Try, Except and Finally
- Try else
- Custom Exception
- Error Vs. Exception

OOPS CONCEPTS

- Real-time in OOPS
- Access Specifiers
- Class and Objects
- Methods, Overloading and Overriding
- Inheritance
- Abstraction and Data Hiding
- Properties &Self-keyword

OS AND SYSTEM SERVICES

- OS module
- Environment variables,
- Paths, directories, and filenames.
- Working with file systems, Dates and times

MULTITHREADING

- Starting a New Thread
- Creating Thread Using Threading Module
- Synchronizing Threads
- Multithreaded Priority Queue

DATABASE CONNECTIVITY

- My SQL & Mongo Database Connection with Python
- CRUD
- Queries in MySQL

XML and JSON

- Working with XML
- DOM and SAX introducing
- Parsing JSON into Python

TKINTER

- Working with tkinter module
- Grid Positions
- Create Button
- Radio Button & Combo Box
- Check Box & Menu bar

PYTHON LIBRARIES

NUMPY

- Numpy Introduction
- Numpy Arrays
- Data Types in Numpy
- Array Indexing
- Array Slicing
- Array Shape
- Array Reshape
- Array Iteration
- Array Join
- Array Split
- Array Search & Sorting
- Array Filter

PANDAS

- Introduction
- Pandas Series
- Pandas Data Frames
- Pandas Read CSV & JSON
- Pandas Analyzing Data
- Data Cleaning

MATPLOT LIBRARY

- Introduction
- Pyplot
- Plotting
- Markers
- Line
- Labels
- Grid
- Subplot
- Scatter Plot
- Bar Chart
- Histogram
- Pie Chart

PANDAS ANALYZING DATA

- Dataset Information
- Description
- Dataset Unique & Missing Values
- Indexing, Plotting
- Separators, Converters
- Merge, Concat, Groupby, Pivot

TABLEAU

INTRODUCTION

- BI Concepts
- What is TABLEAU? Why Data Visualization?
- Unique Features compared to Traditional BI Tools
- TABLEAU Overview & Architecture
- File Types & Extensions

- **DATA CONNECTIONS IN TABLEAU INTERFACE**
- Data Connections in the Tableau Interface
- Connecting to Tableau Data Server
- Types of Join
- When to Use Joining
- What is Data Blending
-
-
-
-

When to Use Data Blending
Joining vs. Blending
Creating Data Extracts in Tableau
Shadow Extracts
Prepare your Data for Analysis

ORGANIZING AND SIMPLIFYING DATA

- Filters. Applying Filters
- Quick Filters
- Sorting of Data
- Creating Combined Fields
- Creating Groups and Defining Aliases
- Working with Sets and Combined Sets
- Drill to Other Levels in a Hierarchy
- Grand totals and Subtotals
- Tableau Bins
- Fixed Sized Bins
- Variable Sized Bins
- Creating and using Parameters
- Exploring Parameter Controls
- Using parameters for titles, field selections, logic statements, Top X
- Cross Tabs [Pivot Tables]
- Page Trials
- Total and Sub-Total

BUILDING CHART TYPES

- Working with Combined Axis
- Working with Combination Charts
- Working with Geocoding and Geographic Mapping
- Using Scatter Plots
- Using Text tables and Highlight tables
- Using Heat Maps
- Using Histograms
- Using Pie Charts
- Using Bullet Charts

ADVANCED CHART TYPES

- Using Pareto Charts
- Using Waterfall Charts
- Using Gantt Charts
- Using Box Plots
- Using Sparkline Charts
- Using Density Charts
- Using KPI Charts
- Small Multiples Working with aggregate versus disaggregate data
-
-

What is Market Basket Analysis
Performing Market Basket Analysis

LOGIC STATEMENTS

- Formatting
- Options in Formatting Visualizations
- Working with Labels and Annotations
- Effective Use of Titles and Captions
- Introduction to Visual Best Practices

MAPPING

- Importing and Modifying Custom Geocoding
- Working with Symbol Map and Filled Map
- Using Background Image
- Exploring Geographic Search
- Perform Pan Zoom Lasso and Radial Selection
- Working with WMS Server Maps [Web Map Service]

STATISTICS

- Add Reference Lines Bands and Distribution
- Adding Reference Lines
- Adding Reference Bands
- Adding Reference Distribution
- Working Reference Lines Bands and Forecasting
- Trend lines and Trend Models

DASHBOARD

- Build Interactive Dashboards
- Best practices for creating effective dashboards
- Creating a Dashboard and Importing Sheets
- Interaction Exploring Dashboard Actions
- Use of Running Actions & Dashboard Actions
- How to Share your Reports & Exporting your Work

POWER BI

INTRODUCTION

- What is Power
- BI Why we have

to use?

ARCHITECTURE

- Components

SUPPORTED DATA SOURCES

- Data Sources

COMPARISON WITH OTHER BI TOOLS

- Power BI vs Tableau

DATA MODELLING

- Using Data Modeling and Navigation
- Creating Calculated Columns
- Creating Calculated Tables
- Managing Time-Based Data

DASHBOARD OPTIONS

- Exploring Different Datasets
- Creating and Sharing Dashboards
- Tiles in Dashboard
- Data Gateway

VISUALIZATION OPTIONS

- Creating Simple Visualizations
- Creating Map Visualizations
- Using Combination Charts
- Using Tables
- Modify Colors in Charts
- Adding Shapes, Images and Text box
- Styling Reports
- Duplicating Reports

EXCEL INTEGRATION

- Using Excel Data
- Importing xlsx Files

DASHBOARDS

- Using Power BI Desktop for Report Sharing
- Printing Power BI Dashboards
- Export Options
- Publishing Report to Web
- Using & Editing
- Content Pack

DAX BASICS IN POWER BI

- DAX Architecture, Entity Sets
- DAX Data Types, Syntax Rules
- DAX Measures and Calculation
- Data Modeling Options in DAX

ADMINISTRATION ROLE

- Purchasing
- REST API
- Security

ADVANCED EXCEL

INTRODUCTION

- FORMULAS & FUNCTIONS
- Aggregate Function
- Logical Function
- Lookup & References
- Financial Functions
- Formatting and Proofing

CONDITIONAL FORMATTING

- Conditional Formatting using New Rule
- Conditional Formatting using Formula

PIVOT TABLES

- Creating Simple Pivot Tables
- Classic Pivot table
- Basic and Advanced Value Field Setting
- Calculated Field & Calculated Items
- Grouping based on numbers and Dates

POWER PIVOT

- Activating Power pivot
- Usage of Data model
- DAX Calculation
- Relational Data

SLICERS AND CHARTS

- Using SLICERS, Filter data with Slicers
- Various Charts i.e. Bar Charts/Pie Charts/Line Charts
- Manage Primary and Secondary Axis

DATA AND VALIDATION

- Number, Date & Time Validation
- Text and List Validation
- Custom Validation
- Dropdown List Validation

ANALYZING AND ORGANIZING DATA

- Creating Scenarios
- Working with Data Tables
- Using Goal Seek
- Using Solver
- Using Consolidating Data by Position or
- Category
- Consolidating Data Using Formulas Excel

SQL

INTRODUCTION

- Get started with database, SQL and MySQL What
- is database?
- Why use SQL?
- Importance of MySQL

BASICS OF SQL

- First Steps in SQL
- Creating a database
- Introduction to data types
- Creating a table

INSTALLING SQL

- Get acquainted with the interface

SQL SERVER LANGUAGES AND RELATIONAL DATABASES

- DDL
- DCL
- DML
- TCL

RELATIONAL DATABASE TERMINOLOGY

- Relational Database essentials
- Primary key
- Foreign key
- Unique key and null values

THE SELECT STATEMENT

- Load the database

- Loading employees' database
- Starting with SELECT statement
- Select-From Where
- And-Or
- (In-not in)
- Like-not like
- Wildcard characters0
- Between-and
- Is not null-is null
- Select distinct
- Aggregate statement
- Order by-Group by
- Using Aliases
- Having and Limit

SQL STATEMENT

- Insert statement
- Inserting data INTO table
- Update statement Commit and rollback
- Delete statement
- Drop vs Truncate
- AGGREGATE FUNCTIONS
- Functions
- Count
- Sum
- Min() and Max
- Avg
- Round()

EXIT PROFILE

- Data Analyst
- Data Scientist
- Data Architect
- Business Intelligence Developer
- Machine Learning Scientist
- Back-end Developer
- Quality Assurance Engine