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Advanced Diploma In  
Data Analytics & Business Intelligence



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# Advanced Diploma In Data Analytics & Business Intelligence

The best  
companies  
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dream of.  
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## **PYTHON PROGRAMMING FOR DATA ANALYTICS**

Python variables  
Data Types & Operators  
Looping Statements  
Conditional Statements  
Functions  
OOPs Concepts  
File handling  
Debugging  
Data Structures and Algorithm  
Scripting

## **SQL FOR DATA ANALYTICS**

Relational & Non Relational Databases  
SQL Basics  
SQL Joins  
SQL Aggregations  
Advanced SQL Queries & Temp Tables  
SQL Data Cleaning  
Window Functions

## **PROBABILITY & STATISTICS**

Data Types  
Population of Sample Data  
Measures of Central Tendency  
Measures of Asymmetry  
Measures of Variability  
Measures of Quartiles  
Measures of Relationship  
Probability Distribution Functions  
Probability and Accuracy  
Hypothesis Testing & Statistical Significance  
Regression

## **ANALYZING DATA WITH PYTHON**

Importing Datasets  
Cleaning and Preparing the Data  
Summarizing the Data Frame  
Numpy  
Pandas  
Data visualization using Python libraries  
Matplotlib

## **DATA VISUALIZATION IN TABLEAU**

Design Principles  
Bringing in Data  
Connecting to Data  
Visualizing Data  
Analyzing Data  
Creating Dashboards  
Publishing and Sharing  
Advanced Visual Analytics

## **Power BI**

Quick Start Power BI Service  
Getting and Transforming Data  
Modeling  
Desktop Visualisations  
Service Visualisation Tools  
Publishing and Sharing  
Refreshing Datasets

## **R PROGRAMMING**

Variables  
Data Types  
Conditional statements  
Looping structures  
Vectors & Data frames

## **BIG DATA ANALYSIS - SCALA & SPARK**

Big data databases  
Hadoop Ecosystem  
Big data analysis using Scala & Spark

## **MACHINE LEARNING & DEEP LEARNING**

## **CAPSTONE PROJECT**



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