Futurepoint
SHAPING U'R FUTURE

END TO END
DATA ANALYST

Core Course	Course content
Fundamentals of Data Analyst	1. What is Data Science 2. Need for Data Scientists 3. Foundation 4. Business Intelligence 5. Data Analysis 6. Data Mining 7. Machine Learning 8. Analytics 9. Data Science 10. Types of Analytics 11. DS across industries 12. DS across functions 13. Analytics Project Lifecycle 14. Data 15. Basis of Data Categorization 16. Types of Data 17. Data Collection
Excel	1. Introduction to Excel 2. Columns & Rows 3. Functionality Using Ranges. 4. Excel Basic & Advanced Formulae's 5. Data Analysis Using Excel 6. Pivot & Power Pivot 7. Spreadsheet Tools 8. Data Cleaning 9. Data Validation 10. Data Visualization Using Excel
	Introduction to RDBMS

DATA BASE	**Sub Language Commands** • Data Definition Language (DDL) • Data Retrieval Language (DRL) • Data Manipulation Language (DML) • Transaction Control Language (TCL) • Database Security and Privileges (DCL) **Introduction to SQL Database Object** • Oracle Pre Defined Datatypes • DDL Commands • Create, Alter (add, modify, rename, drop)Columns, Rename, truncate, drop • DML-Insert, update, delete • DQL-SELECT Statements using WHEREclause • Comparison and Conditional Operators • Arithmetic and Logical Operators • Set Operators (UNION, UNION ALL, INTERSECT, MINUS) • Special Operators – IN (NOT IN), BETWEEN (NOT BETWEEN), LIKE (NOT LIKE), IS NULL (IS NOT NULL)
Statistical	**Descriptive & Inferential Statistics** 1. Turning Data into Information 2. Probability Distributions 3. Sampling Distributions 4. Confidence Intervals 5. Hypothesis Testing 6. Comparing Two Groups 7. Analysis of Variance (ANOVA) **Prediction Analytics** 1. Simple Linear Regression 2. Multiple Linear Regression 3. Model Adequacy Checking 4. Transformations 5. Diagnostics for Leverage and 6. influence 7. Polynomial Regression 8. Dummy Variables 9. Variables Selection and Model Building 10. Generalized Linear Models Autocorrelation **Applied Multivariate Analysis** 1. Measures of Central Tendency, Dispersion and Association

	2. Multivariate Normal Distribution 3. Sample Mean Vector and Sample Correlation 4. Principal Components Analysis(PCA) 5. Factor Analysis 6. Discriminant Analysis 7. MANOVA
R Programming	**1. R Programming** 1. R Basics 2. Numbers, Attributes 3. Creating Vector 4. Mixing Objects 5. Explicit Coercion 6. Formatting Data Values 7. Matrices, List, Factors, Data Frames, 8. Missing Values, Names 9. Reading and Writing Data 10. Using Dput/DDump 11. Interface to the Outside world 12. Sub setting R objects 13. Vectorized Operations 14. Dates and Times 15. Managing Data Frames with the DPLYR 16. package 17. Control Structures 18. Functions 19. Lexical /Dynamic Scoping 20. Loop Functions 21. Debugging **Data Visualization in R** 1. Storytelling with Data 2. Principle tenets 3. Elements of Data Visualization 4. Infographics vs Data Visualization 5. Data Visualization & Graphical functions in R 6. Plotting Graphs 7. Customizing Graphical Parameters to improvise the plots 8. Various GUIs 9. Spatial Analysis 10. Other Visualization concepts

Python	1. Python Overview 2. About Interpreted Languages 3. Advantages/Disadvantages of Python pydoc 4. Starting Python 5. Interpreter PATH 6. Using the Interpreter 7. Running a Python Script 8. Python Scripts on UNIX/Windows, Editors and IDEs 9. Using Variables 10. Keywords 11. Built-in Functions 12. StringsDifferent Literals 13. Math Operators and Expressions 14. Writing to the Screen 15. String Formatting 16. Command Line Parameters and Flow Control **Sequences and File Operations** 1. Lists 2. Tuples 3. Indexing and Slicing 4. Iterating through a Sequence 5. Functions for all Sequences 6. Using Enumerate() 7. Operators and Keywords for Sequences 8. The xrange() function 9. List Comprehensions 10. Generator Expressions 11. Dictionaries and Sets

Machine Learning Introduction	1. ML Fundamentals 2. ML Common Use Cases 3. Understanding Supervised and Unsupervised Learning Techniques 4. Clustering 5. Similarity Metrics 6. Distance Measure Types: Euclidean, Cosine Measures 7. Creating predictive models 8. Understanding K-Means Clustering 9. Understanding TF-IDF, Cosine Similarity and their application to Vector Space Model 10. Case study 11. Implementing Association rule mining 12. Case study 13. Understanding Process flow of Supervised Learning Techniques 14. Decision Tree Classifier 15. How to build Decision trees 16. Case study 17. Random Forest Classifier 18. What is Random Forests 19. Features of Random Forest 20. Out of Box Error Estimate and Variable Importance 21. Case study 22. Naive Bayes Classifier 23. Case study 24. Project Discussion 25. Problem Statement and Analysis 26. Various approaches to solving a Data Science Problem 27. Pros and Cons of different approaches and algorithms 28. Linear Regression 29. Case study 30. Logistic Regression 31. Case study 32. Text Mining 33. Case study 34. Sentimental Analysis 35. Case study

Power BI Or Tableau

Power BI Introduction
Data Visualization, Reporting
Business Intelligence (BI), Traditional BI, Self-Serviced BI
Cloud Based BI, On Premise BI
Power BI Products
Power BI Desktop (Power Query, Power Pivot, Power View)
Flow of Work in Power BI Desktop
Power BI Report Server, Power BI Service, Power BI Mobile Flow

Power Query

Data Transformation, Benefits of Data Transformation
Shape or Transform Data using Power Query
Overview of Power Query / Query Editor, Query Editor User Interface The
Ribbon (Home, Transform, Add Column, View Tabs)
The Queries Pane, The Data View / Results Pane, The Query Settings Pane, FormulaBar
Saving the Work
Datatypes, Changing the Datatype of a Column Filter in Power Query
Auto Filter / Basic Filtering
Filter a Column using Text Filters
Filter a Column using Number Filters
Filter a Column using Date Filters
Filter Multiple Columns
Remove Columns / Remove Other Columns
Name / Rename a Column
Reorder Columns or Sort Columns
Add Column / Custom Column Split Columns
Merge Columns
PIVOT, UNPIVOT Columns
Transpose Columns
Header Row or Use First Row as Headers
Keep Top Rows, Keep Bottom Rows Keep Range of Rows
Keep Duplicates, Keep Errors
Remove Top Rows, Remove Bottom Rows, Remove Alternative Rows
Remove Duplicates, Remove Blank Rows, Remove Errors
Group Rows / Group By

Data Modeling

Data Modeling Introduction
Relationship, Need of Relationship
Relationship Types / Cardinality in General
One-to-One, One-to-Many (or Many-to-One), Many-to-Many
AutoDetect the relationship, Create a new relationship, Edit existing relationships
Make Relationship Active or Inactive
Delete a relationship

DAX

What is DAX, Calculated Column, Measures
DAX Table and Column Name Syntax
Creating Calculated Columns, Creating Measures Calculated Columns Vs Measures
DAX Syntax & Operators

DAX Operators

Types of Operators
Arithmetic Operators, Comparison Operators, Text Concatenation Operator, Logical Operators

DAX Functions Types

Date and Time Functions
Text Functions
Logical Functions
Math & Statistical Functions
Filter Functions
Time Intelligence Functions
Date and Time Functions
YEAR, MONTH, DAY
WEEKDAY, WEEKNUM
FORMAT (Text Function) à Month Name, Weekday Name
DATE, TODAY, NOW
HOUR, MINUTE, SECOND, TIME
DATEDIFF, CALENDAR
Creating Date Dimension Table
Text Functions
LEN, CONCATENATE (&)
LEFT, RIGHT, MID UPPER, LOWER
TRIM, SUBSTITUTE, BLANK

	Logical Functions IF TRUE, FALSE NOT, OR, IN, AND IFERROR SWITCH Math & Statistical Functions INT ROUND, ROUNDUP, ROUNDDOWN DIVIDE EVEN, ODD POWER, SIGN SQRT, FACT SUM, SUMX MIN, MINX MAX, MAXX COUNT, COUNTX AVERAGE, AVERAGEX COUNTROWS, COUNTBLANK **Filter Functions** CALCULATE ALL RELATED Report View Report View User Interface Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas Visual **Interactions** Interaction Type (Filter, Highlight, None) Visual Interactions Default Behavior, Changing the Interaction Grouping and Binning Introduction Using grouping, Creating Groups on Text Columns Using binning, Creating Bins on Number Column and Date Columns Sorting Data in Visuals Changing the Sort Column, Changing the Sort Order Sort using column that is not used in the Visualization Sort using the Sort by Column button Hierarchy Introduction, Default Date Hierarchy Creating Hierarchy, Creating Custom Date Hierarchy Change Hierarchy Levels Drill-Up and Drill-Down Reports Data Actions, Drill Down, Drill Up, Show Next Leve **Visualizations** Visualizing Data, Why Visualizations Visualization types, Create and Format Bar and Column Charts

	Create and Format Stacked Bar Chart Stacked Column Chart Create and Format Clustered Bar Chart, Clustered Column Chart Create and Format 100% Stacked Bar Chart, 100% Stacked Column Chart CreateandFormat Pie and Donut Charts Create and Format Scatter Charts Create and Format Table Visual, Matrix Visualization Line and Area Charts Create and Format Line Chart, Area Chart, Stacked Area Chart Combo Charts Create and Format Line and Stacked Column Chart, Line and Clustered ColumnChart Create and Format Ribbon Chart, Waterfall Chart, Funnel Chart Power BI Service Power BI Service Introduction, Power BI Cloud Architecture Creating Power BI Service Account, SIGN IN to Power BI Service Account Publishing Reports to the Power BI service, Import / Getting the Report to PBI ServiceMy Workspace / App Workspaces Tabs DATASETS, WORKBOOKS, REPORTS, DASHBOARDS Working with Datasets, Creating Reports in Cloud using Published Datasets
Projects(Elective 1 only)	Facial Recognition Social Media Analytics Facial Detection Data Acquisition and Productization Object Detection Handwriting Recognition Sales Prediction Stock Market Prediction Data Security

Courses Offerings

- Amazon Web Services
- Android
- Azure , Azure Devops , Azure Data Bricks , Azure Data Factory, Data Engineer
- Business Analyst
- CA Siteminder
- Cognos 10 BI & Tm1
- Crystal Reports
- Data Stage
- Data Engineer -- Haddop , Azure , AWS , Google
- Dell Bhoomi
- Dev Ops – Aws , Azure
- Dot Net
- Data Science
- Full Stack Developer
- ForgeRock
- Go Programming
- GCP Data Engineer
- Hadoop / Bigdata
- IBM App Connect Enterprise
- IBM Integration BUS (IIB)
- Informatica
- I Phone , Swift Language
- Java/J2EE
- JAVA UI
- JIRA Tools, Administration
- Mango DB
- MicroSoft .NET Technologies (VB.NET, C#, ASP.NET, Wcf ,Wpf ,Mvc)
- Microstrategy
- MS Power BI
- MuleSoft
- OBIEE 11 g , 12c
- ODI (Oracle Data Integrator)
- OKTA
- Openstack
- Oracle FUSION APPS SCm / HCM / Financial
- Oracle APPS – HRMS, SCM, Manufacturing , Technical , ASCP .Dmantra
- Oracle APPS – Project Accounting
- OAF
- Oracle DBA 11g , 12c, !9c
- Oracle RAC , Data Guard , Performance Tuning,
- Oracle Fusion SOA
- Oracle SQL , PL SQL
- Prompt Engineering Chat GPT
- PowerApps
- PostGreSQL Development and DBA
- Python
- Robotics Automation Process , UI Path , AA
- SAP Simple Finance

- SAS Clinical , Finance
- Sales Force CRM Development , Administration and Lightening
- SQL Server DBA
- Springs and Hibernate , Spring Boot , MicroServices
- Tableau
- Tera Data
- Testing Tools - QTP, QC, Load Runner, Selenium, ISTQB, Jmeter, Appium
- Tivoli Access Manager & Tivoli Storage Manager

http://www.futurepointtech.com/data-analytics-training-course.html

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