

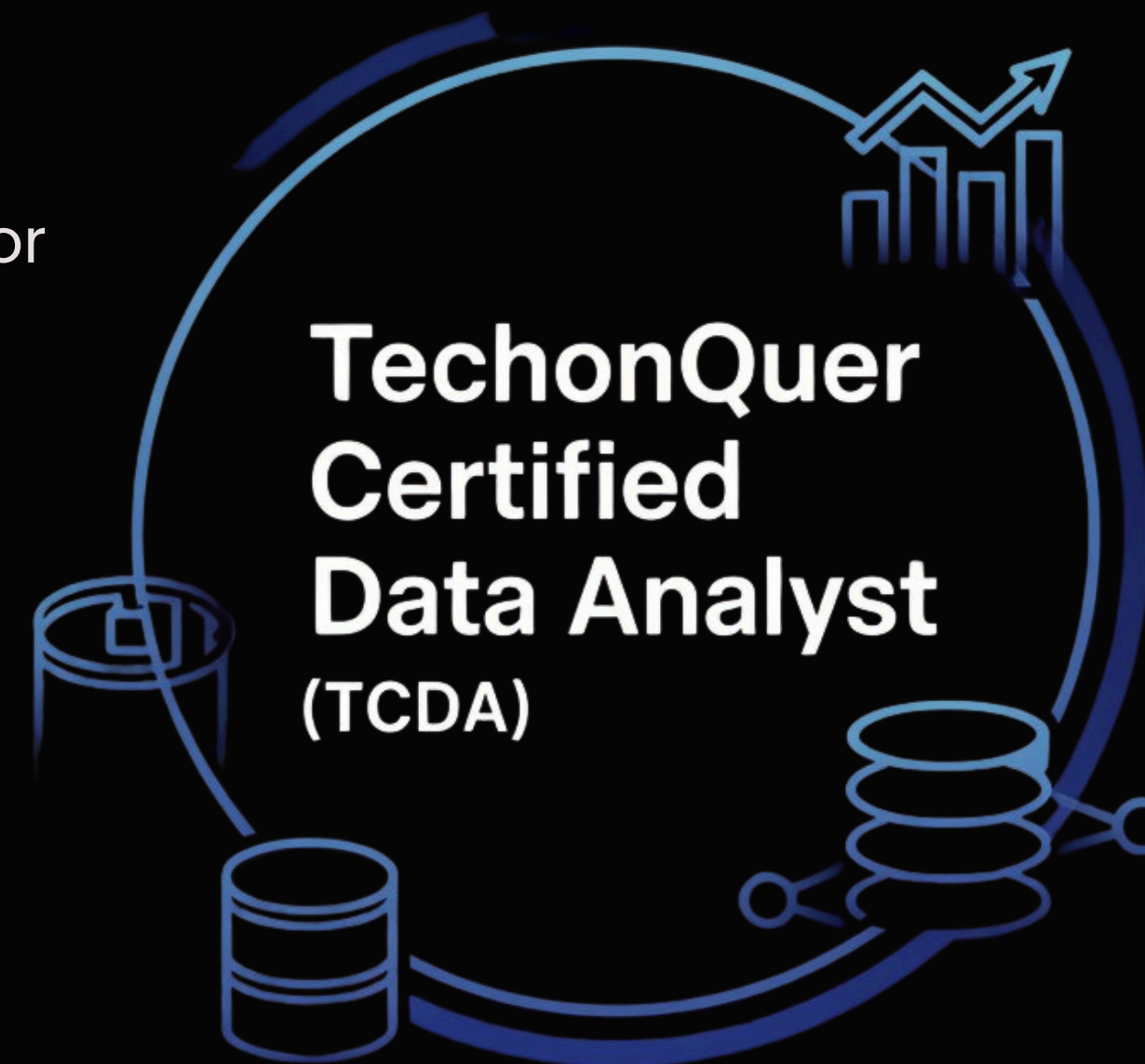
3-Month Live Data Analyst Training



Become Job Ready in Just 3 Months Live Training

starting 20th June !

- Course Price
- The course fee is just ₹4,000 INR, making it budget-friendly for students. You can conveniently pay in two installments:
 - First Installment: ₹3,000 at the time of enrollment
 - Second Installment: ₹1,000 after 20 days
- Start your learning journey without financial stress!
- Life time Recording Access after live class
- Class Schedule
 - Days: 3 classes per week (Friday Saturday , Sunday)
 - Duration: Each session will be 2 hours long
 - Mode: 100% Live & Online



Module 1: Introduction to Analytics



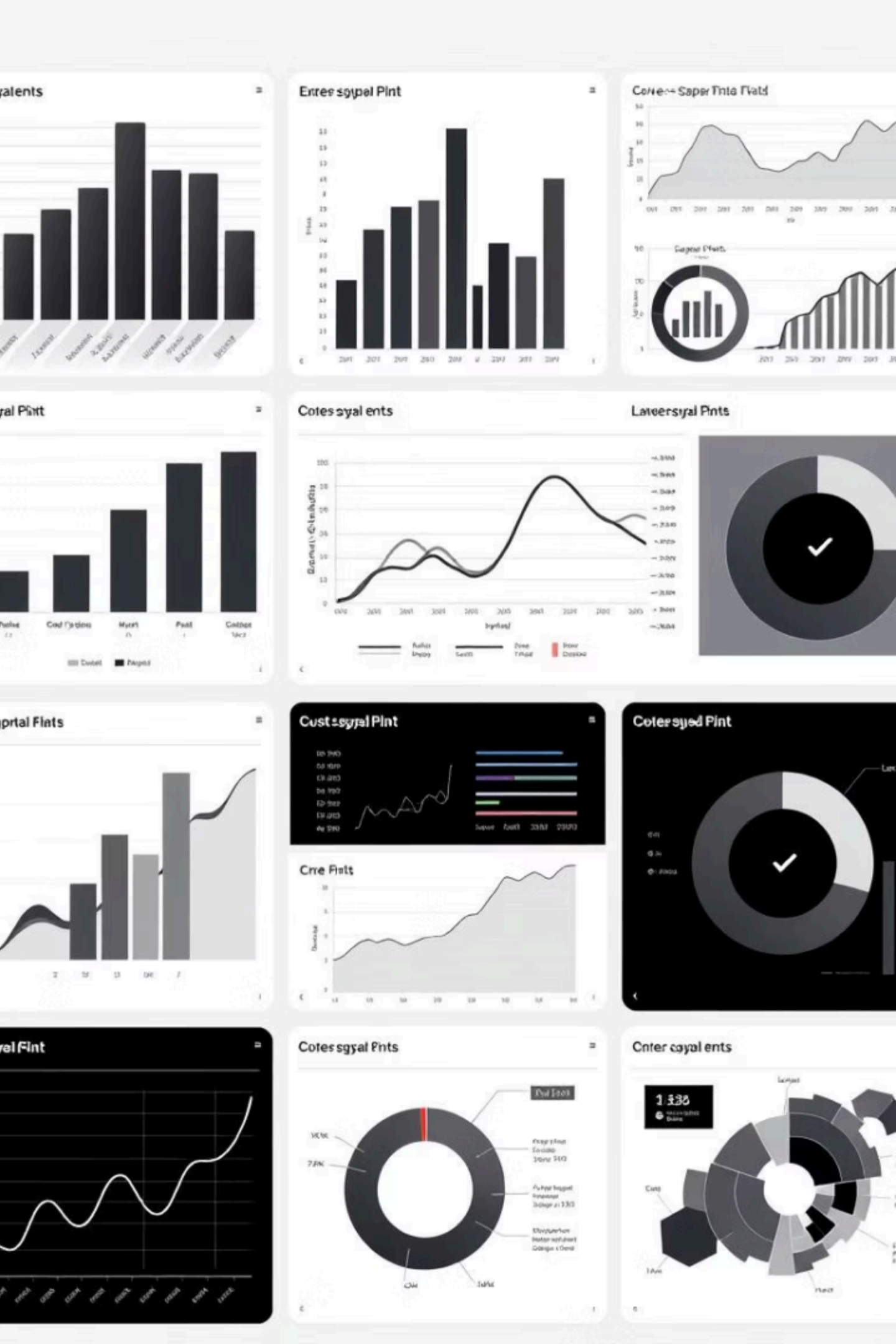
Module 2: Data Wrangling in Excel

Core Excel Skills

- Importance of Excel in Data Analytics
- Basic Excel Functionalities
- Searching and Filtering Data
- Excel Formulas
- Merging Data in Excel
- Data Entry Techniques, Data Validation Rules, and Handling Errors and Inconsistencies
- Data Cleaning Tools: Find and Replace, Text to Columns

Advanced Excel Functions

- Pivot Charts in Excel
- Cleaning Data with Text Functions
- VLOOKUP, HLOOKUP, INDEX-MATCH
- Logical Functions (IF, AND, OR, Nested IF Statements and Conditional Formatting)
- Statistical Functions (AVERAGEIFS, COUNTIFS, SUMIFS)
- Text Manipulation Functions (CONCATENATE, TEXTJOIN)



Module 3: Advanced & Data Visualization in Excel

Advanced Excel Features

- Advanced Excel Functions and Features
- Reading Complex JSON Files
- Styling Tabulation

Data Visualization Techniques

- Distribution of Data: Histogram, Box Plot
- Pie Chart, Donut Chart
- Stacked Bar Plot, Relative Stacked Bar Plot
- Stacked Area Plot, Scatter Plots. Line Plot
- Bar Plot, Continuous vs. Continuous Plot

AI Integration & Automation

- Combo Charts and Dual Axis Charts
- Area Plots and Conditional Formatting with Charts
- Introduction to Power View and Power Map
- Introduction to Macros and VBA
- Using ChatGPT to Generate Insights and Summaries from Excel Data
- AI-powered Excel Add-ins
- Automating tasks using ChatGPT

Module 4: Data Modeling & SQL Fundamentals

- 1 Database Introduction and Installation (MySQL)
- 2 Internal & External Data Sources
- 3 Structured vs. Unstructured Data
- 4 What is SQL, NoSQL and its Differences
- 5 SQL Basics
- 6 Data Modeling Concepts (ER Diagrams, Normalization)
- 7 SQL Commands (DDL, DML, DCL, TCL)
- 8 ACID Transactions
- 9 SQL Constraints and Operators
- 10 Clauses in SQL (WHERE, HAVING, GROUP BY, ORDER BY)

Module 5: Advanced SQL Techniques



Joins

Inner, Left, Right, Full, Equi, Non-Equi, Self



Functions

Mathematical Functions, Date/Time, General Functions and Conversion Functions, Numeric and String Functions



Advanced Queries

Conditional Expressions, Subqueries, Rank and Window Functions



Cloud Integration

Working with Google BigQuery

Module 6: Statistics Fundamentals

Core Statistical Concepts

- Descriptive Statistics: Central Tendency (Mean, Median, Mode) and Dispersion (Variance, Standard Deviation)
- Probability Concepts
- Statistical Inference
- Hypothesis Testing and A/B Testing

Advanced Statistical Techniques

- Learn statistical tests like T-Tests, ANOVA, Chi-Square
- Time Series Analysis
- Estimation Techniques: Point & Interval Estimation
- Finding Statistical Relationships Between Sets of Data

Module 7: Data Visualization: PowerBI & Tableau

Power BI

- Power BI Overview, Features and Components
- Importing Data into Power BI from Various Sources
- Data Transformation and Cleaning using Power Query Editor
- Modeling Data Relationships in Power BI
- Introduction to DAX Functions and Calculated Columns
- Advanced Visualization Techniques (Heat Maps, Tree Maps, Scatter Plots)
- Working with Time Intelligence Functions
- Power BI Publishing and sharing options
- Creating Custom Measures and KPIs in Power BI
- Dashboard Design and Data Storytelling
- Power BI with AI Insights

Tableau

- Tableau Overview, Features and Components
- Data Connectivity
- Data Preparation and Transformation in Tableau Prep Builder
- Building Basic and Advanced Visualizations
- Implementing Interactive Dashboards
- Introduction to Tableau Calculations
- Geospatial Analysis and Mapping
- Using Tableau's Forecasting Features
- Introduction to Tableau Server and Tableau Online
- Understanding the use of AI in Tableau
- AI analysis in Tableau using chart
- Geographic Data Visualization (using Tableau/Power BI)

Module 8: Python Basics & Pandas for Data Analysis

- IDE- Jupyter notebook / VSCode
- Print statement
- Variables
- String Basics
- Data Types, List ,Tuple, Set, Dictionary

Python Basics

1

2.5 Hours

Pandas Fundamentals

- DataFrames and Series: creating, manipulating, and accessing data
- Data cleaning: handling missing values, duplicates, and data types

2

Python for Data Analysis

- Conditional Statements, For and While Loop
- Built-in-Functions-(Numbers and Math)
- User Defined Function
- Modules and Packages

3

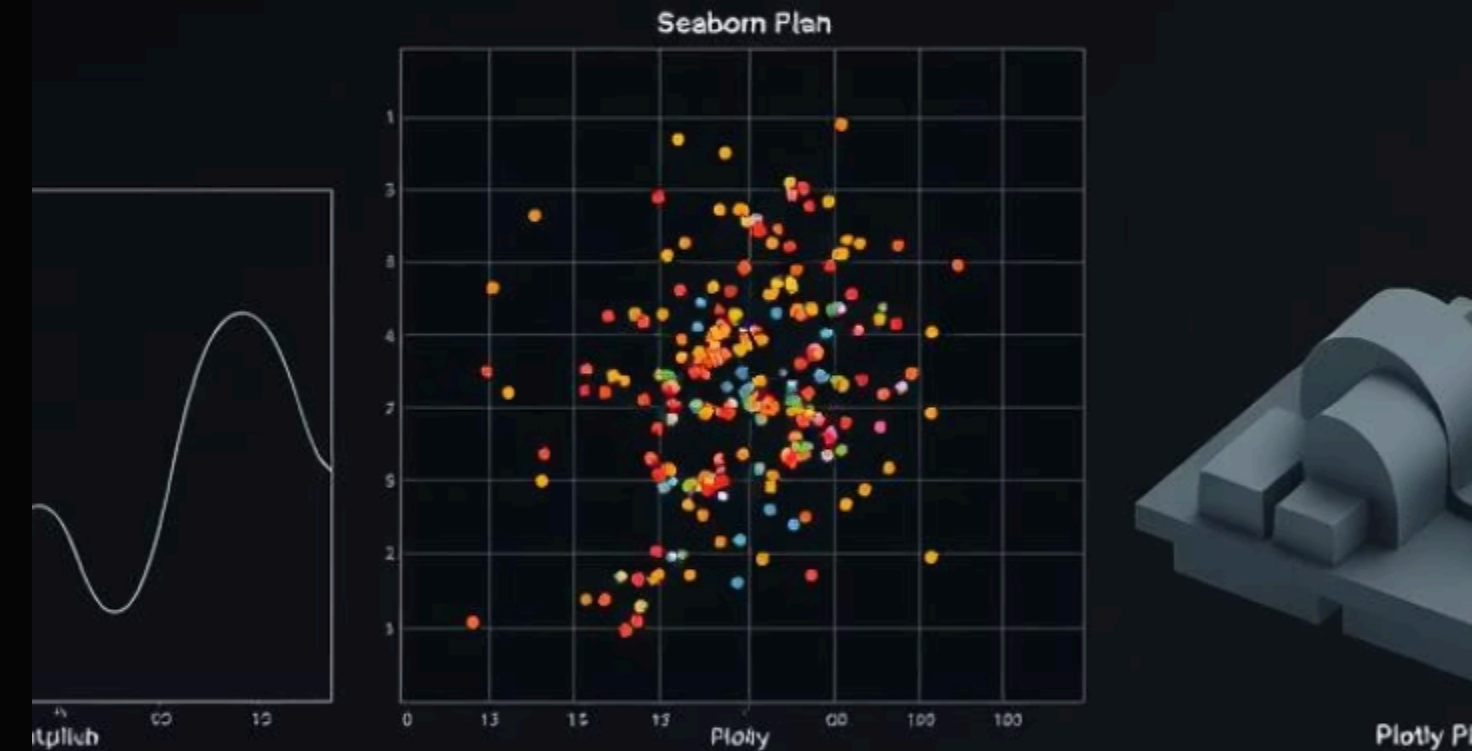
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Advanced Pandas

- Data transformation: grouping, merging, concatenating, reshaping
- Advanced operations: pivot tables, apply functions, custom aggregations
- Time series data manipulation

Module 9: **Data Visualization (Essentials)**

- 1 Key plotting with Matplotlib, Seaborn
- 2 Basic interactive charts with Plotly



Module 10 : Data Visualization using Pyspark, Dash & Module

Data Visualization using Pyspark, Dash

- Introduction to PySpark for big data processing
- DataFrames in PySpark: reading, cleaning, transforming large datasets
- Using `pyspark.sql` and [`pyspark.ml`](#) for analytics
- Integrating PySpark with Pandas and visualization libraries
- Exporting and sampling data for visualization

Dash Framework

- Overview of Dash framework by Plotly
- Building a simple interactive dashboard with callbacks
- Layout and interactivity using Dash components
- Deploying Dash apps (local, cloud platforms)
- Case study: building a real-time analytics dashboard

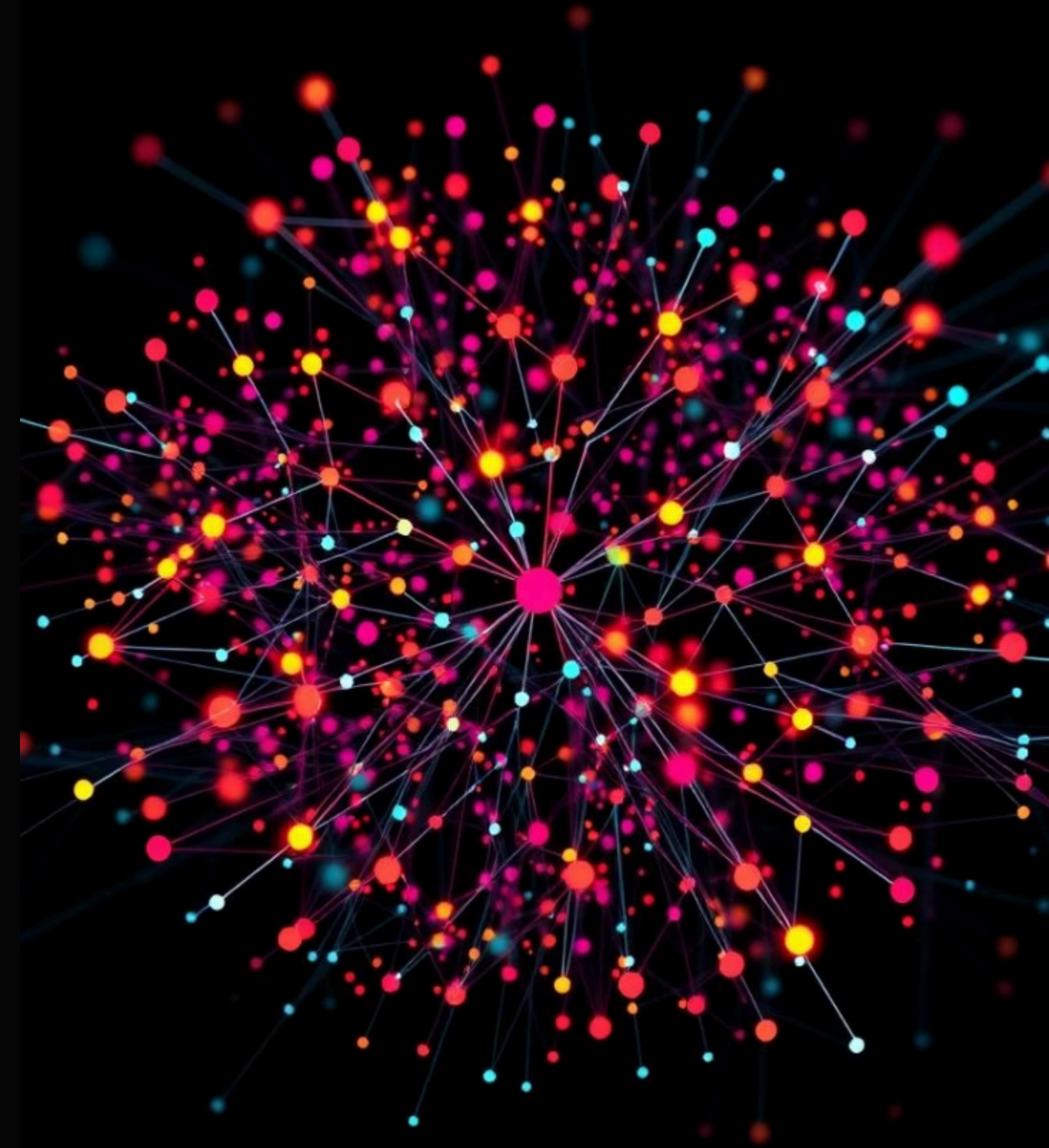
Module 11 : RFM Analysis for Marketing

- ## 5 Case Study: RFM Analysis of Grocery Store or Supermarket Customers



Module 12 : **Cluster Analysis**

- 1 Market Basket Analysis: Support, Confidence & Lift
- 2 K means clustering and Hierarchical Cluster Analysis
- 3 Elbow Plot
- 4 Case study : Customer segmentation
- 5 Case study : E-commerce Targeted Ads





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