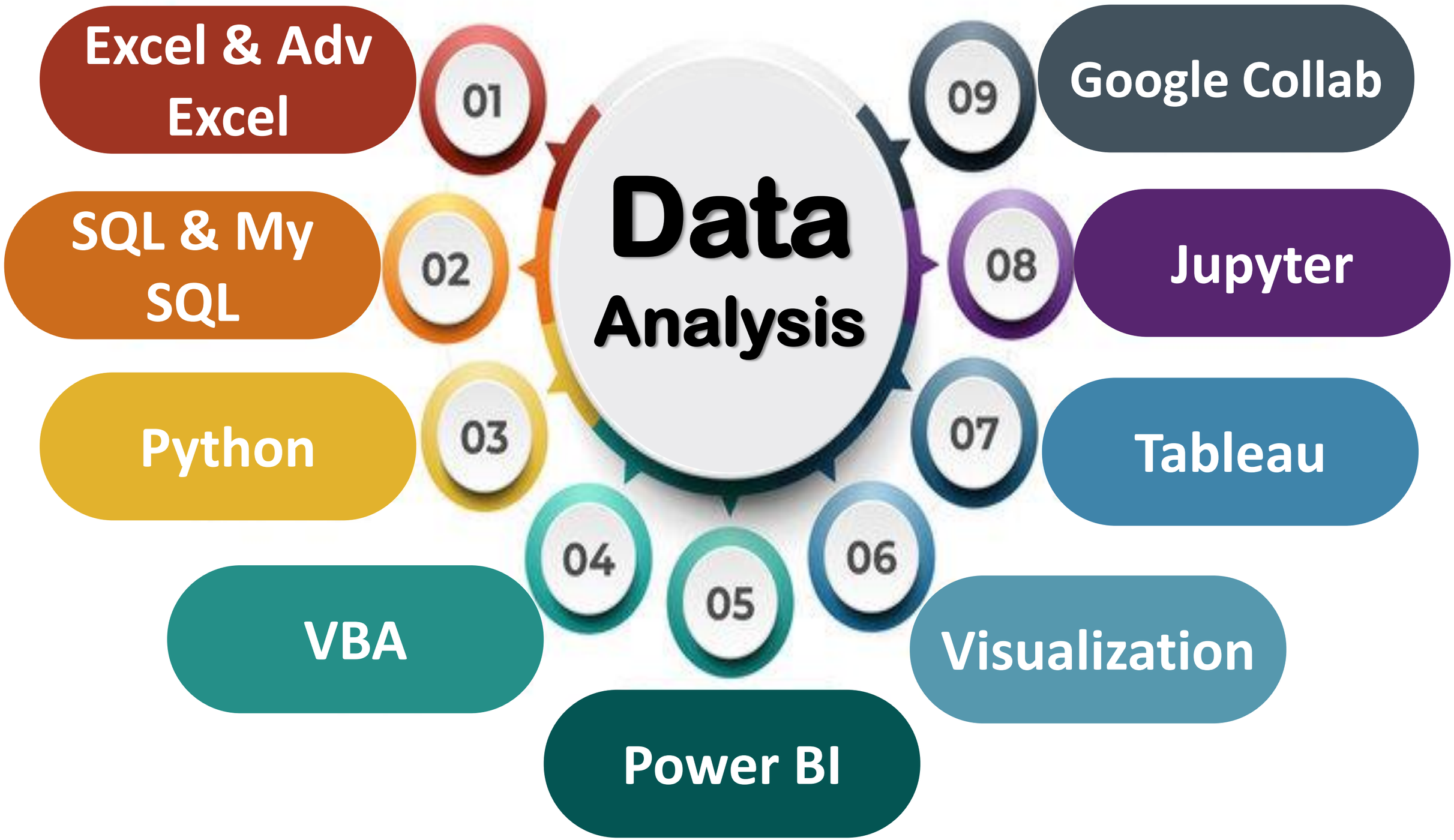
How to learn

DATA ANALYTICS

INTRODUCTION

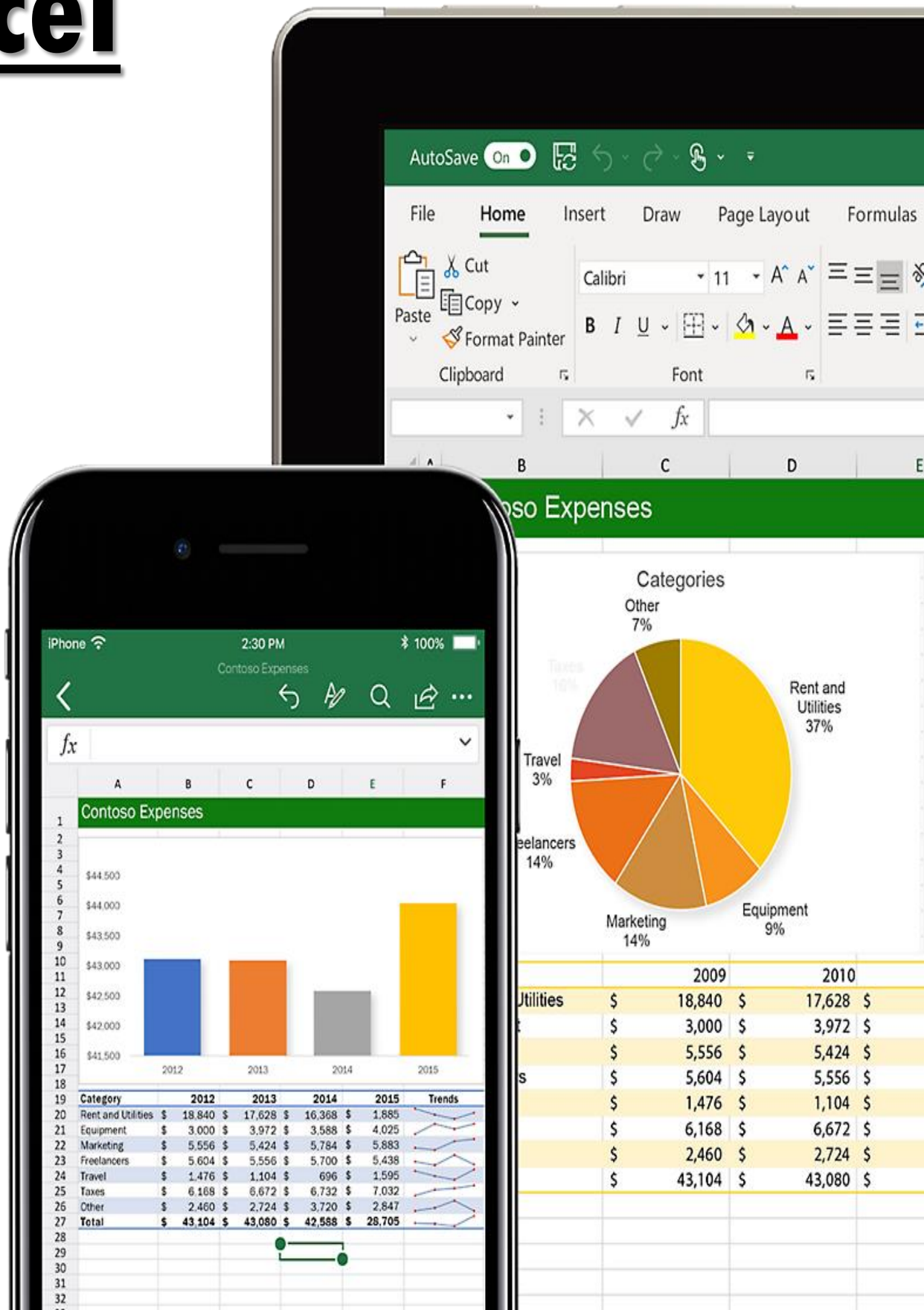
Data analytics is the process of analyzing raw data to uncover meaningful insights and patterns that can inform decision-making. By leveraging techniques such as statistical analysis, machine learning, and data visualization, organizations can extract valuable information from large datasets to drive strategic initiatives, optimize operations, and gain a competitive edge in today's data-driven world.

Course Outline



Excel & Advance Excel

- Basic Functions
- Data Organization
- Formatting
- Charts and Graphs
- PivotTables
- Advanced Functions
- Data Analysis Tools
- Macros and Automation
- Data Visualization
- Power Query and Power Pivot



VBA

- Integration with Office Suite
- Object-Oriented Language
- Event-Driven Programming
- Macro Recorder
- IDE (Integrated Development Environment)
- Access to Object Model
- Language Constructs
- Extensibility & Security
- Community and Resources

SQL & MYSQL

- Standardized Language
- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Control Language (DCL)
- Data Query LaCage (DQL)
- Data Types
- Constraints & Transactions
- Open Source RDBMS
- Compatibility
- Client/Server Architecture
- Scalability
- Performance
- Community and Support
- Storage Engines & Administration Tools

PYTHON

- General-Purpose Programming Language
- Readability and Simplicity
- Interpreted Language
- Dynamic Typing
- Object-Oriented
- Extensive Standard Library
- Large Ecosystem
- Platform Independence
- Community and Support
- Open Source

POWER BI

- Data Visualization
- Data Connectivity
- Data Modelling
- Data Analysis
- Data Visualization Customization
- Interactive Dashboards
- Sharing and Collaboration
- Security and Governance
- Mobile Apps
- Integration with Other Microsoft Products

VISUALIZATION

- Communication
- Understanding Patterns and Trends
- Exploration and Discovery
- Decision Making
- Storytelling
- Visualization Types
- Design Principles
- Tools and Technologies
- Interactivity
- Ethical Considerations

TEABLEAU

- Visual Analytics
- Ease of Use
- Connectivity
- Data Preparation
- Powerful Visualizations
- Interactivity
- Dashboards and Stories
- Sharing and Collaboration
- Advanced Analytics
- Scalability and Performance

JUPYTER

- Largest Planet
- Composition
- Great Red Spot
- Magnetic Field
- Moons
- Ring System
- Gravity Assist
- Scientific Missions
- Role in Solar System Dynamics
- Formation

GOOGLE COLAB

- Jupyter Notebooks
- Free Cloud Computing
- Integration with Google Drive
- Support for Libraries
- Collaborative Editing
- Code Snippets and Examples
- Markdown Support
- Export Options