Practical 2: Career-Oriented Presentation

Aim:

To create a career presentation using slides, transitions, and animations.

Objectives:

• To design a multi-slide professional presentation

• To apply transitions and animations

Materials Required:

• PowerPoint or Google Slides

Procedure:

Open a blank presentation

Launch PowerPoint/Google Slides and select the option to create a new blank presentation.

This opens a fresh workspace where you will design your slides.

Create a title slide

Insert a title slide layout and add the presentation title along with your name or subtitle.

Ensure the title is clear, readable, and visually centered on the slide.

Add minimum 7 slides

Use the "New Slide" option to insert at least seven additional slides with appropriate layouts.

Each slide should focus on a single topic or idea for clarity.

Insert images, icons, and bullet points

Add relevant images and icons to visually support your content.

Use bullet points to present information in a structured and easy-to-read format.

Apply a theme

Choose a professional theme from the design options available in the software.

The theme will automatically set consistent fonts, colors, and backgrounds.

Add transitions and animations

Apply slide transitions for smooth movement between slides.

Add animations to text or images to enhance the presentation without overusing effects.

DATA SCIENCE

1. Introduction to Data Science

o Data Science is an interdisciplinary field that focuses on extracting meaningful insights and knowledge from structured and unstructured data. It combines statistics, mathematics, computer science, and domain expertise to analyze data and solve real-world problems. With the rapid growth of digital information, Data Science has become essential for organizations to make data-driven decisions. It plays a key role in modern technologies such as artificial intelligence, machine learning, and big data analytics.

2. DATA COLLECTION

o Data collection is the first and most important step in the Data Science process. It involves gathering data from multiple sources such as databases, websites, sensors, social media platforms, mobile applications, and surveys. Data can be structured, semi-structured, or unstructured. The quality, accuracy, and relevance of collected data directly affect the final results of analysis. Proper data collection ensures reliable outcomes and meaningful insights.

3. DATA CLEANING

o Data cleaning, also known as data preprocessing, is the process of correcting or removing inaccurate, incomplete, or irrelevant data. Raw data often contains missing values, duplicate entries, and inconsistencies that can affect analysis. In this step, data scientists handle missing data, remove noise, correct errors, and standardize formats. Data cleaning improves data quality and is crucial for building accurate models and trustworthy results.

4. DATA ANALYSIS

- Data analysis involves examining cleaned data to identify patterns, trends, correlations, and insights. Various statistical and analytical techniques are used to understand the behavior of data. This step helps organizations answer important questions, identify problems, and discover opportunities. Data analysis supports better decision-making by turning raw data into valuable information.

5. DATA VISUALIZATION

- Data visualization is the graphical representation of data using charts, graphs, dashboards, and plots. It helps simplify complex data and makes insights easier to understand for both technical and non-technical users. Visualization tools such as bar charts, line graphs, pie charts, and heat maps are commonly used. Effective data visualization improves communication and supports quick interpretation of results

6. TOOLS AND TECHNOLOGIES IN DATA SCIENCE

- Data Science uses a wide range of tools and technologies to analyze and manage data. Popular programming languages include Python and R, while SQL is used for database management. Tools like Excel are used for basic analysis, and visualization tools such as Tableau and Power BI help create interactive dashboards. Advanced technologies such as machine learning libraries and big data platforms further enhance data processing and prediction capabilities

7. APPLICATIONS AND CAREER SCOPE OF DATA SCIENCE

- Data Science has applications in many fields, including healthcare, finance, e-commerce, education, transportation, and artificial intelligence. It is used for disease prediction, fraud detection, recommendation systems, customer analysis, and automation. Due to its growing importance, Data Science offers excellent career opportunities such as Data Scientist, Data Analyst, Machine Learning Engineer, and Business Analyst. The demand for skilled data professionals continues to rise, making Data Science one of the most promising career fields today.