Day 01

Topic Covered: Setup of R Studio and Introduction to R Language for Data Analytics

Summary:

Today marked the beginning of our R programming and Data Analytics journey. We started by installing R and RStudio, setting up the environment for coding and data analysis.

We then explored variables — containers that store values — and learned three ways to assign them in R: using assignment operators, arrows, and double arrows. Next, we covered operators, including arithmetic and logical operators, which are fundamental for performing calculations and comparisons on datasets.

This session gave us a strong foundation for data analysis — before we can manipulate datasets or build models, we need to understand how to store and handle data efficiently.

New Concepts Learned:

- Installing R and RStudio for data analysis
- Declaring variables using different methods
- Performing arithmetic and logical operations
- Understanding how operators are crucial in data cleaning and transformation
- Recognizing the role of variables and operators in data analytics workflows

Activity:

- Installed R and RStudio on our machines
- Created variables using assignment, arrows, and double arrows
- Practiced arithmetic operations to manipulate numeric data

- Discussed how these basics will help in *data analysis tasks* like calculating averages, totals, and comparing datasets

Challenges Faced:

Keeping track of different ways to declare variables and understanding operator precedence. Also, realizing how even basic operations form the backbone of more complex data analytics calculations.

Key Takeaway:

Mastering variables and operators is essential. These basics form the foundation for data manipulation, analysis, and visualization in R — the core of any data analytics project.