Course: Datascience Machine Learning And AI

Cat1: : Student Performance Analysis Using R Markdown

Marks: 20 Mks

You are required to complete the following Data Science project using **R and R Markdown**.

Project Question

Create an **R Markdown (.Rmd) file** titled:

"Student Performance Analysis Report"

Inside the R Markdown file, complete the following tasks:

Part 1: Create a Data Frame

1. Create a data frame named `students_data`.
2. The data frame must contain **at least 15 records (rows)**.
3. The data frame must contain **exactly 5 columns** with the following column names:

Column Name	Description
Student_ID	Unique ID for each student
Name	Student full name
Gender	Male or Female
Age	Age of student
Score	Final exam score (out of 100)

Use the Following Data

Use the dataset below when creating your data frame:

Student_ID	Name	Gender	Age	Score
S001	Brian Otieno	Male	20	78
S002	Mercy Wanjiku	Female	22	85
S003	Kelvin Kiptoo	Male	21	67
S004	Faith Achieng	Female	23	90
S005	Daniel Mwangi	Male	20	72
S006	Sharon Atieno	Female	22	88

S007	Collins Mutua	Male	24	60
S008	Esther Njeri	Female	21	95
S009	Peter Ochieng	Male	23	74
S010	Lilian Chebet	Female	20	81
S011	Mark Kimani	Male	22	69
S012	Irene Naliaka	Female	24	92
S013	Victor Maina	Male	21	76
S014	Cynthia Moraa	Female	23	84
S015	Samuel Odhiambo	Male	22	71