

# Data Analysis

## Project 1

The primary goal of this analysis is to explore and extract valuable insights from the sales data of PS4 games. This includes understanding global and regional sales trends, identifying top-performing games, genres, and publishers, and visualizing key patterns in the data.

### Data Preprocessing and Wrangling:

- 1. Load the dataset using Python Library Pandas*
- 2. Check types of data*
- 3. Drop Irrelevant Columns*
- 4. Rename Columns where required*
- 5. Check duplicate rows*
- 6. Drop duplicate records*
- 7. Check missing and null vales*
- 8. Drop missing and null values*

### Analysis Objectives:

- 1. Identify the top 5 best-selling games globally*
- 2. Yearly trend with the highest number of game releases.*
- 3. Compare the sales growth trend for "Action" and "Shooter" genres over the years.*
- 4. Total sales comparison for regions (pie chart)*
- 5. Trend of global sales over the years (line chart)*
- 6. Contribution of each genre to regional sales (stacked bar chart).*
- 7. Top 10 Publishers having most Game Releases*
- 8. Compare Japan Vs Europe Sales Market (Combo chart)*