VISUAL INSIGHTS REPORT

Exploratory Data Analysis on Netflix & Iris Datasets:

1. Introduction

This report presents exploratory data analysis (EDA) performed on two datasets: Netflix Titles and Iris. The goal is to summarize visual insights, patterns, and feature behaviors.

NETFLIX DATASET

Dataset Overview:

Contains Movies & TV Shows metadata including type, rating, duration, country, release_year, and genres.

Key Visual Insights:

- Movies dominate over TV Shows.
- Most common rating is TV-MA followed by TV-14.
- USA and India lead in content production.
- Sharp rise in content after 2015 (Original Content phase).
- Dominant genres: Drama, Comedy, International TV Shows.
- Movie duration clusters around 80–120 minutes with outliers beyond 160.

Summary:

Netflix shows a global content expansion trend with strong emphasis on mature-rated genres and movie content.

IRIS DATASET

Dataset Overview:

Includes sepal and petal measurements for 3 species: Setosa, Versicolor, Virginica.

Key Visual Insights:

- Dataset is clean with no missing values.
- Petal features show distinct separation across species.
- Setosa is linearly separable with smaller petal dimensions.
- Petal length & width positively correlated.
- Sepal width correlations weaker.

Summary:

Iris dataset is ideal for classification tasks due to strong species separability via petal features.

Conclusion:

Both datasets reveal meaningful insights. Netflix highlights market-driven content trends while Iris demonstrates biological separability useful for ML modeling.