

Exploratory Data Analysis (EDA) – Visual Insights Report

TOOLS USED:

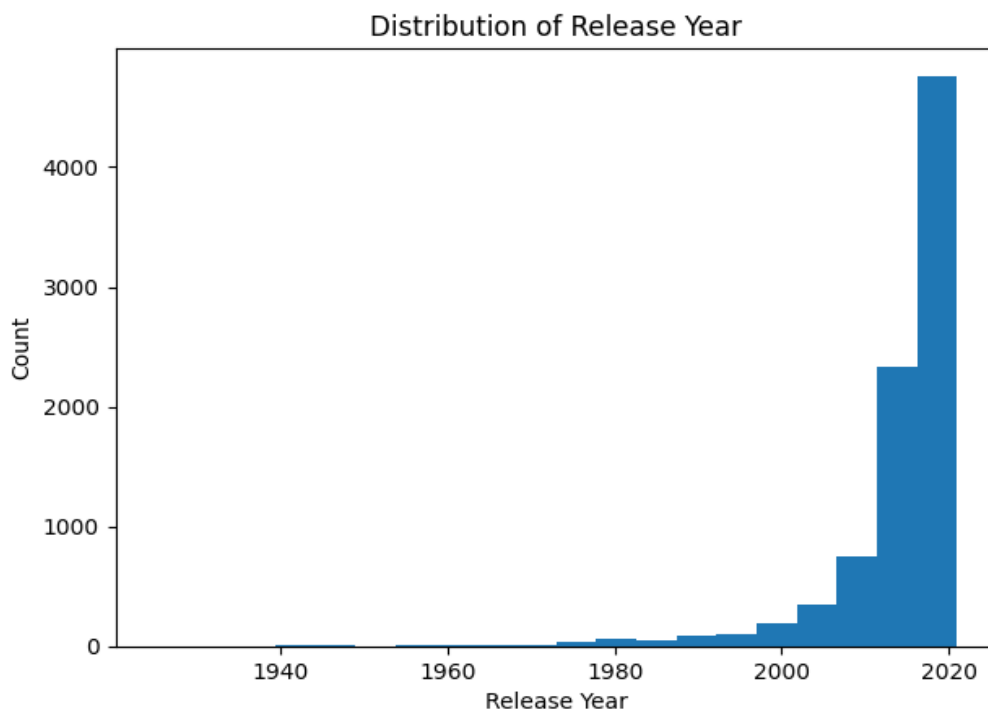
Python - Pandas, Matplotlib, Seaborn

DATASETS:

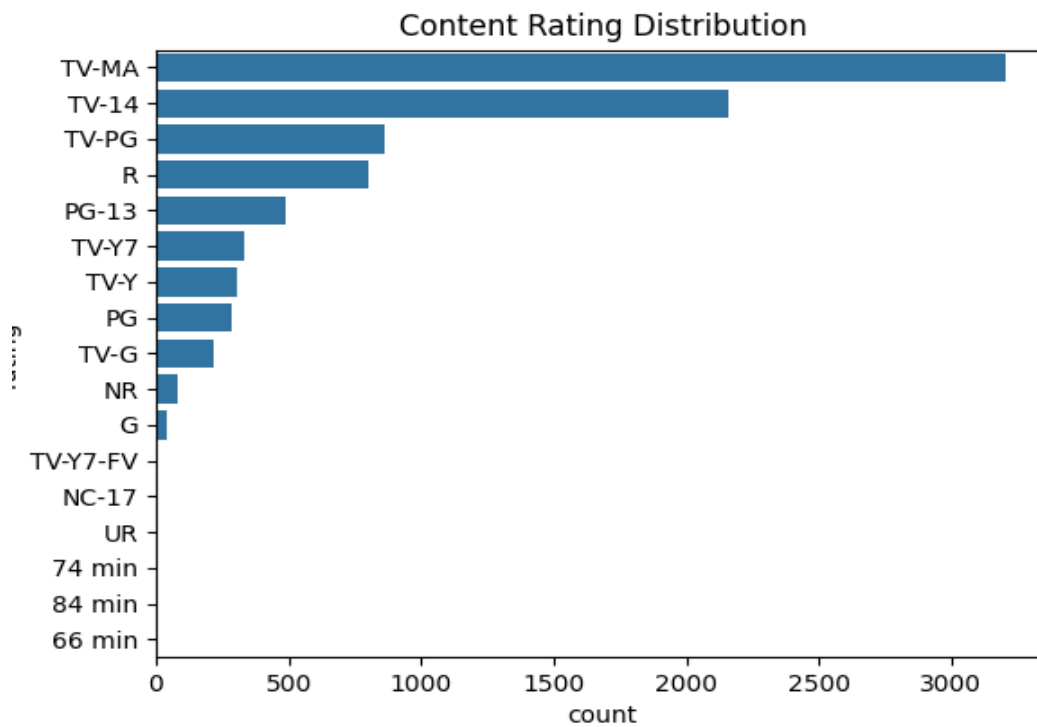
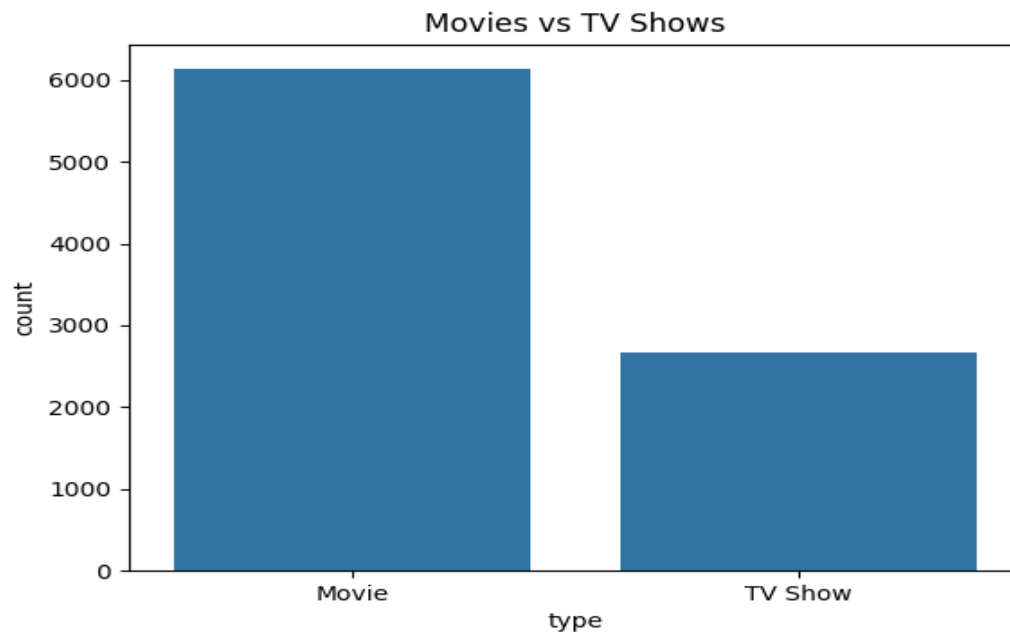
1. Netflix Movies and TV Shows Dataset
2. Iris Dataset

NETFLIX DATASET INSIGHTS

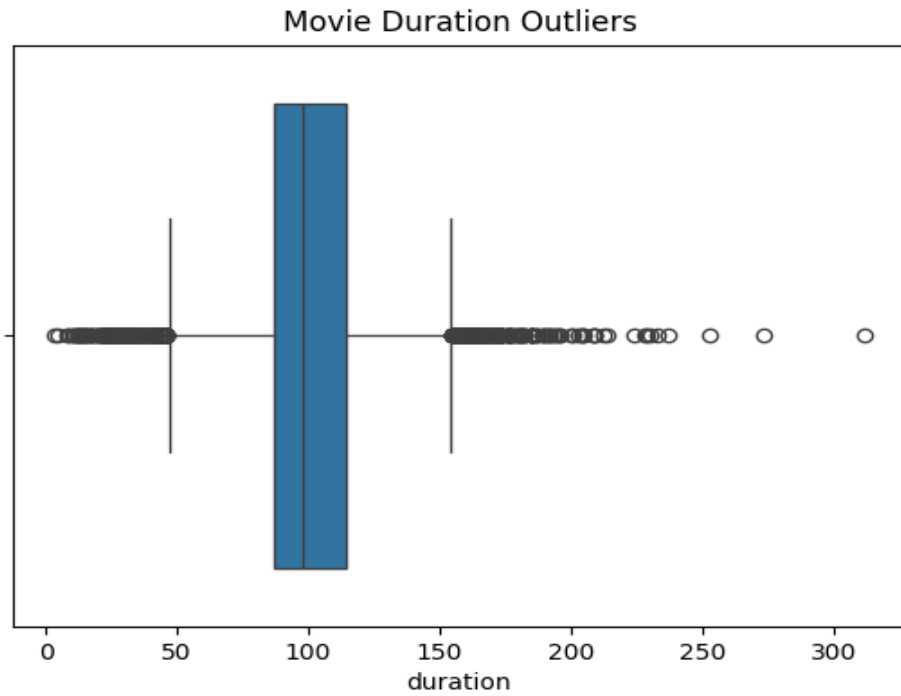
1. Histogram Analysis (Release Year):



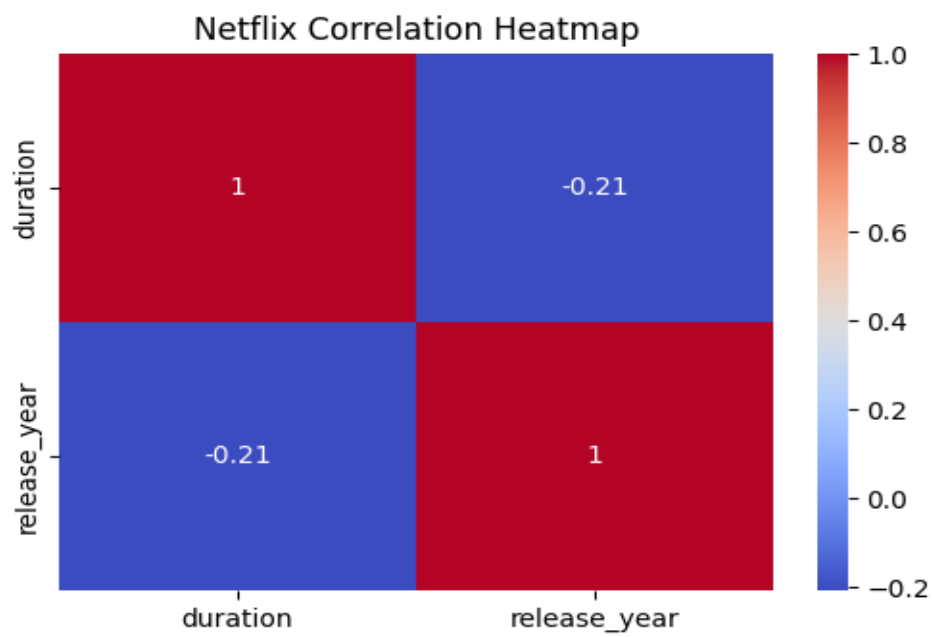
2. Categorical Analysis:



3. Outlier Detection:



4. Correlation Analysis:



Insights:

- Weak correlation between duration and release year.
- Netflix dataset is largely categorical.

Important Features for Prediction (Netflix)

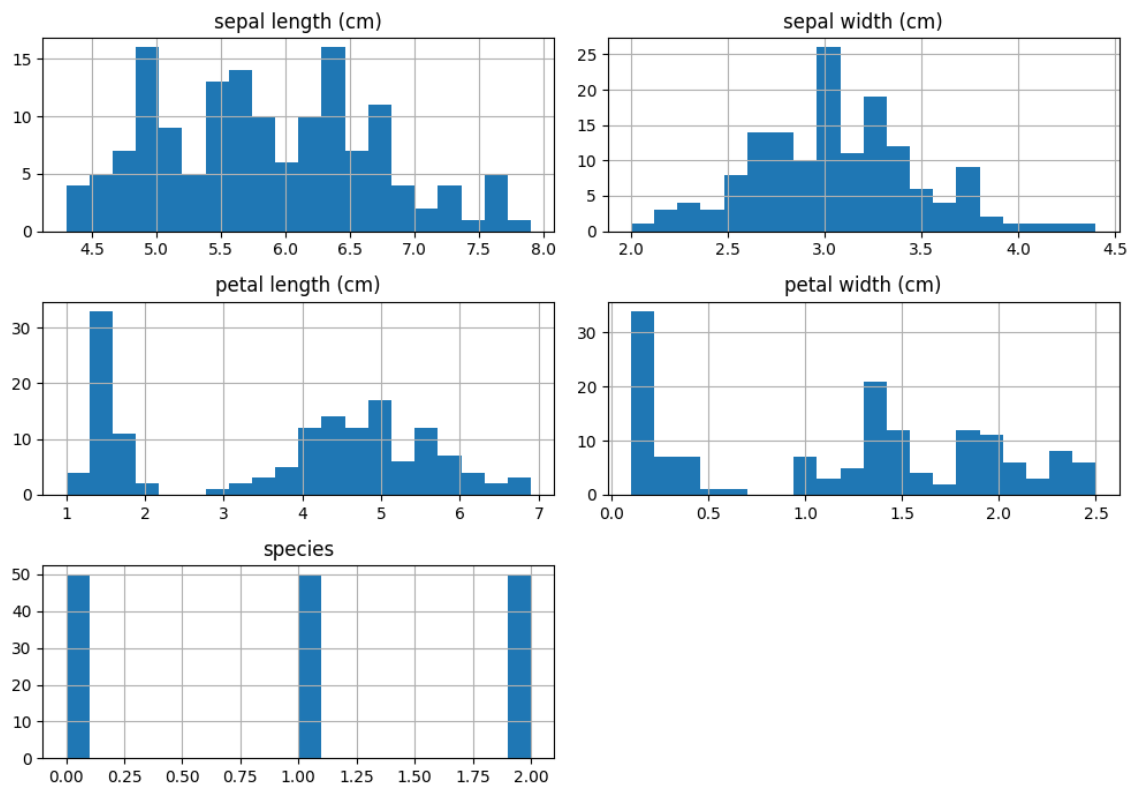
- Type (Movie / TV Show)
- Release Year
- Rating
- Duration
- Country

Netflix Summary

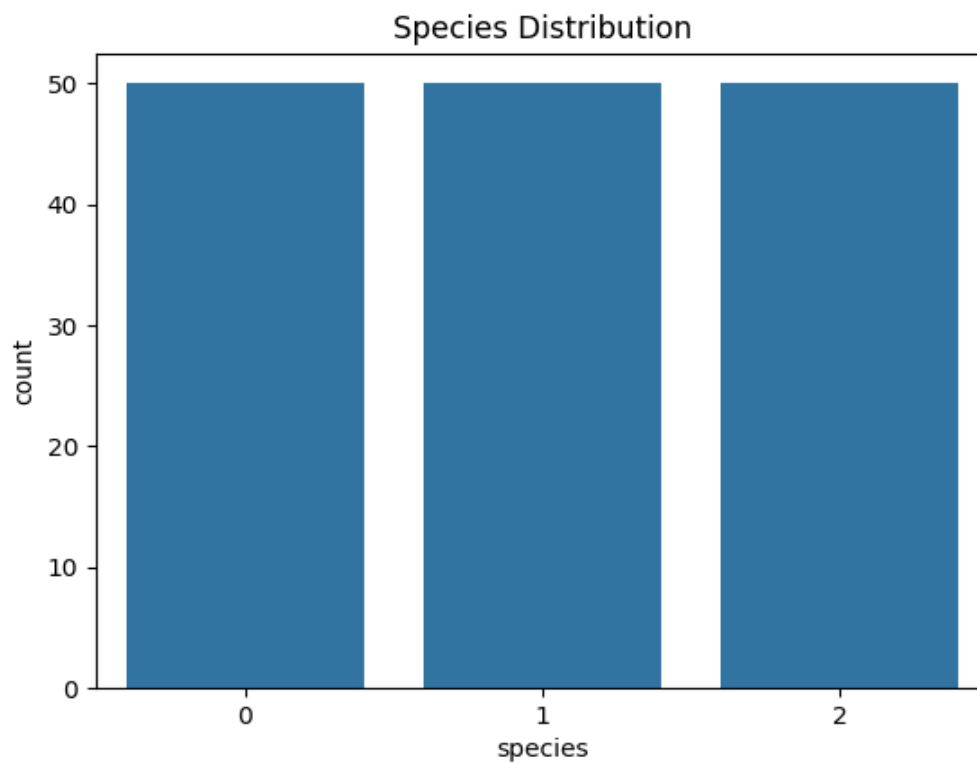
- Dataset is highly categorical.
- Movies dominate the platform.
- Content production surged after 2015.
- Duration contains extreme outliers.
- Ratings indicate mature audience focus.

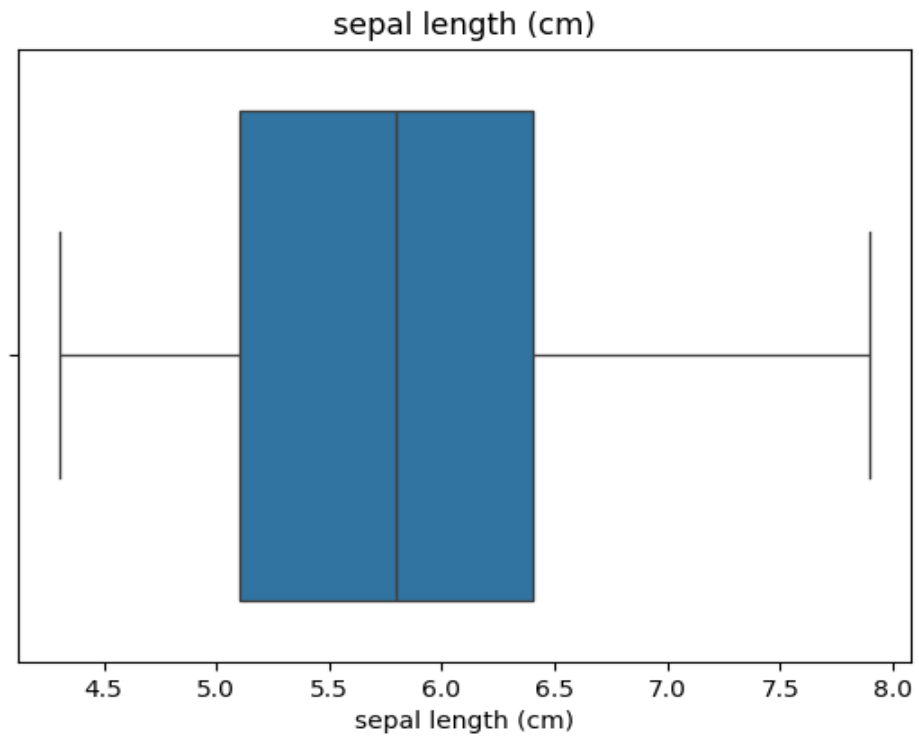
IRIS DATASET INSIGHTS

1. Histogram Analysis:

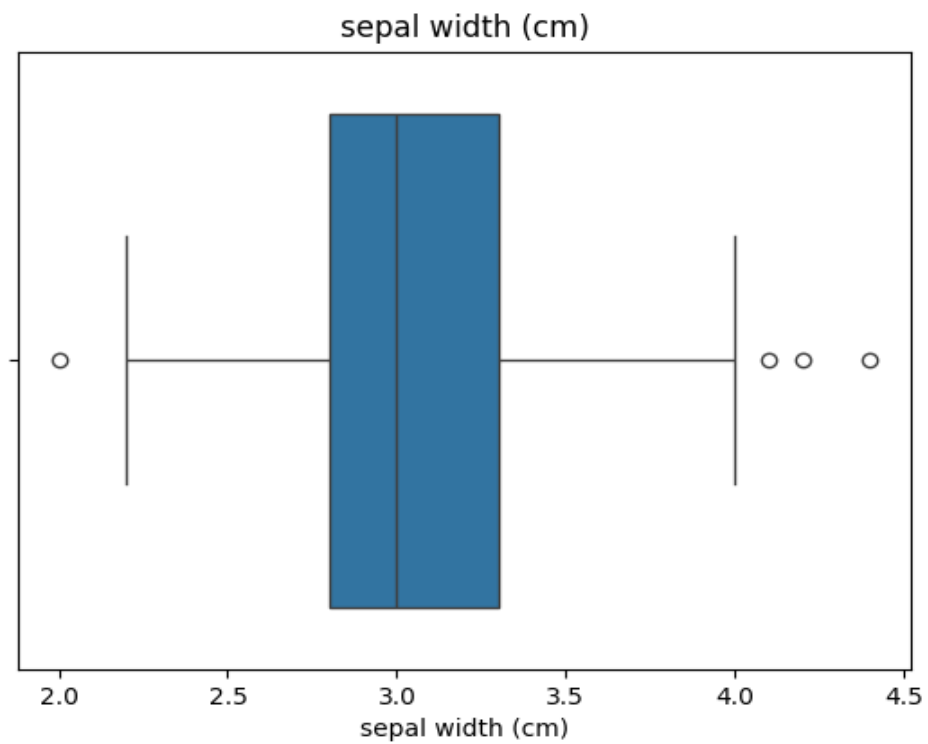


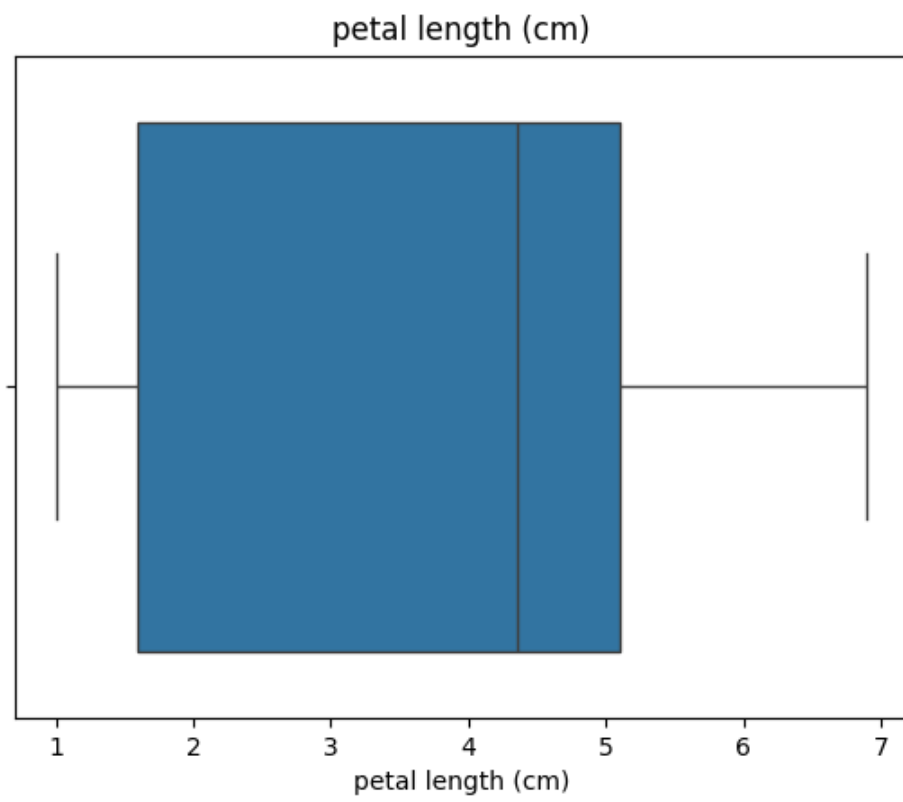
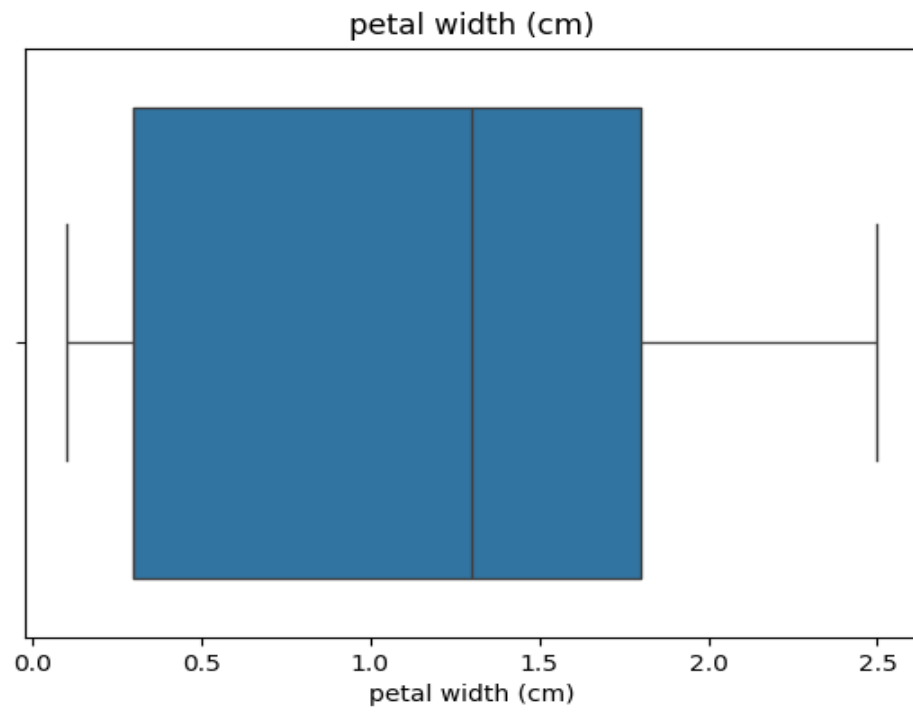
2. Categorical Analysis:



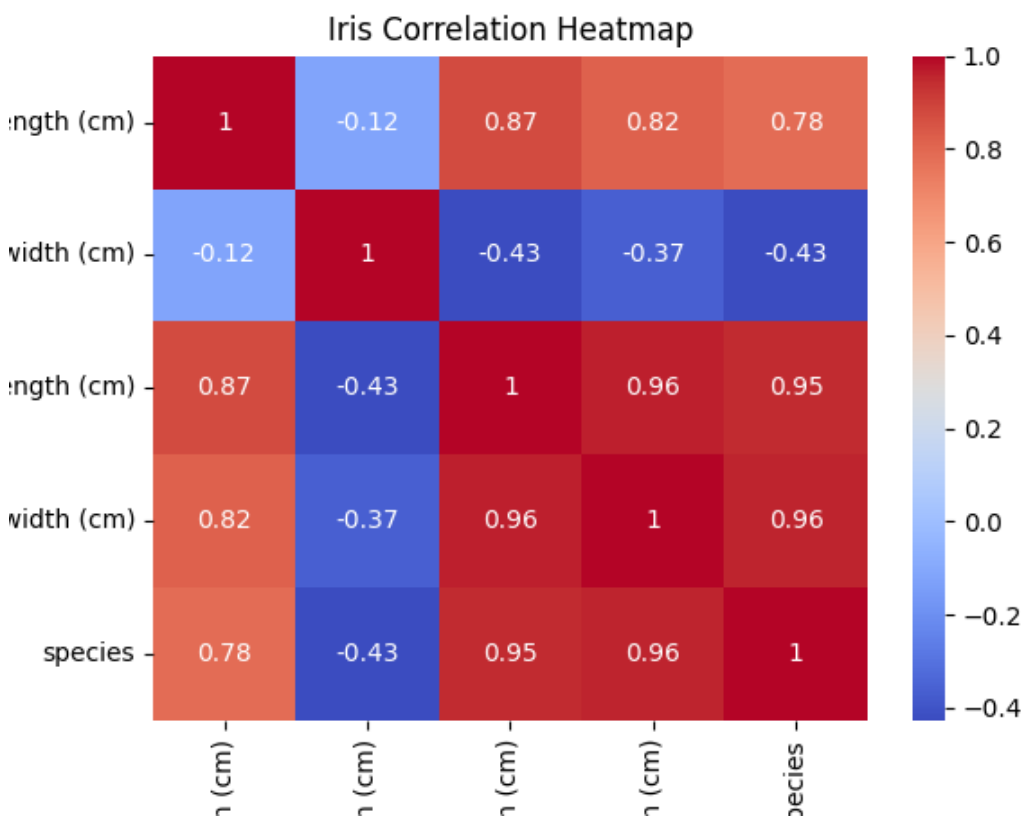


3. Outlier Detection:





4. Correlation Analysis:



Insights:

- Strong correlation between petal length and petal width.
- Sepal width has weak correlation.
- Petal features are ideal for classification.

Important Features for Prediction (Iris)

- Petal Length
- Petal Width
- Sepal Length

Iris Summary

- Balanced dataset with no class imbalance.
- Strong correlation among petal features.
- Minimal outliers present.
- Highly suitable for classification models.
- Petal measurements dominate prediction power.

CONCLUSION

EDA helped understand data patterns, detect anomalies, and identify important features. Visualization techniques made data interpretation easier and more effective.