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## Project Overview

**Key user attributes :** Age, Gender, Subscription Plan, Monthly Revenue, Last Dance of Activity, Join Date, Device.

02

## Libraries and Data Handling

**Libraries used :** Pandas, Matplotlib, Seaborn.

**Data Loading and preprocessing :** Loading from CSV, data cleaning, handling dates and categorical data.

03

## Data AnalysisTechnique

**Descriptive statistics :** Mean, median, count, standard deviation. **Visualization methods :** Bar charts, pie charts, heatmaps, count and distribution plots.

04

## Key Findings

**User Demographics :** Age and gender distribution, regional preferences. **Device usage :** Popular devices by user segment, device-based viewing patterns. **Subscription details :** Preferences for subscription plans, impact on user engagement.

05

## Advance Analysis

**Geographical insights :** Categorization in to continents, regional analysis. **Temporal trends :** Sign-up trends over months, seasonal patterns.



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## Machine Learning

**Linear Regression Model** : powerful statistical method for predicting a continuous variable. In the context of our Netflix user data analysis.

07

## Visual Insights

**Gender distribution** : Count plots by country. Device preference by country. **Subscription type popularity** : Visualization of plan popularity.

08

## Conclusion

Summary of insights derived, implications for future strategic decisions.

## Appendix

**Code Snippets** : Provided Python code used for loading, cleaning, transforming data, and generating visualizations.

**Google Colab Link** :

<https://colab.research.google.com/drive/1pXSq3tEO5nfl-LQvuS5-ov0Vz6fTyOD?usp=sharing>

**Datasets** : Sample dataset of Netflix users for data analysis.

**Additional References** : Referenced any external datasets or tools used during the analysis process.

**Github Website Link** :

<https://nineswords.github.io/csel302/>

