Intermediate Project: "Netflix Content Recommendation System and Predictive Analysis"

Main Goal:

Build an intelligent content analysis system that can understand Netflix's catalog patterns, predict content characteristics, and recommend similar titles to users based on their preferences.

This project will include:

Main Modules:

1. **Advanced Exploratory Data Analysis (EDA)**
   - Temporal trend analysis by genre
   - Movie/series duration patterns
   - Text mining on descriptions
   - Correlations between variables
2. **Natural Language Processing (NLP)**
   - Keyword extraction from descriptions
   - Sentiment analysis on titles
   - Content similarity clustering
   - Word clouds by category
3. **Simple Recommendation System**
   - Content-based similarity recommendations
   - Filtering by features (genre, country, rating)
   - Similarity matrix using TF-IDF
4. **Predictive Analysis**
   - Predict content type (Movie/TV Show) based on features
   - Rating classification
   - Advanced feature engineering
5. **Interactive Visualizations**
   - Interactive dashboard with Plotly
   - Actor/director network analysis
   - Heatmaps of production by country/year

Skills you'll practice:

- Advanced data cleaning
- Feature engineering
- NLP and text processing
- Machine Learning (classification)
- Interactive visualizations
- Handling categorical and temporal data