

Project Proposal

Problem Statement

What kind of Recommendation Systems can I build using both traditional techniques and modern deep learning algorithms that have both high accuracy and make sense logically.

Context

This is my second capstone project for Springboard's Data Science course. Recommendation Systems are everywhere, and are an integral part of systems such as Google's YouTube videos and Amazon's Marketplace. For this project, I will create Recommendation Systems using the Netflix dataset on Kaggle.

Criteria for Success

Create a model that can recommend movies and shows that make sense logically

Scope of Solution Space

Scope of solution space includes explanatory analysis of 12 variables that can be used for content recommendation. This includes a "description" feature which gives a short synopsis of the movie or show.

Constraints Within Solution Space

I am the mercy of the data. There could be missing values, mislabeled data, and even wrong information. This could highly influence my modeling and ultimately my results.

Stakeholders to provide key insights

1. Kenneth Gil-Pascual, Data Scientist Consultant

Key Data Sources

1. A single CSV file that contains 7787 combined shows and movies and 12 home variables for Ames, Iowa.
2. The third-party website where the data originally came from.

Deliverables

1. GitHub repository explaining my exploration process, analysis, and results.
2. A Project Report describing my process, conclusions, findings, and any other important details.
3. A PowerPoint presentation outlining and summarizing my results.