

Recommendation Engine

Wednesday, October 3, 2018 1:44 PM

<https://www.kaggle.com/fabiendaniel/film-recommendation-engine>

<https://github.com/Sahoopa/My-Projects/tree/master/Santander%20Product%20Recommendation>

<https://www.kaggle.com/c/santander-product-recommendation/kernels>

<https://github.com/Sahoopa/My-Projects/blob/master/Santander%20Product%20Recommendation/Final%20Model.ipynb>

<https://github.com/jadianes/spark-movie-lens>

<http://127.0.0.1:8080>

Collaborative Filtering

In Collaborative filtering we make predictions (filtering) about the interests of a user by collecting preferences or taste information from many users (collaborating). The underlying assumption is that if a user A has the same opinion as a user B on an issue, A is more likely to have B's opinion on a different issue x than to have the opinion on x of a user chosen randomly. The image below (from [Wikipedia](#)) shows an example of collaborative filtering. At first, people rate different items (like videos, images, games). Then, the system makes predictions about a user's rating for an item not rated yet. The new predictions are built upon the existing ratings of other users with similar ratings with the active user. In the image, the system predicts that the user will not like the video.





From
<https://render.githubusercontent.com/view/ipynb?commit=c161b9305e5df0c41aed62f7aa883c47e1960481&enc_url=68747470733a2f2f7261772e6769746875627573657263666e74656e742e63666d2f6a616469616e65732f737061726b2d6d6f7669652d6c656e732f633136316239333035653564663063343161656436326637616138383363343765313936303438312f6e67465626f6b732f6275696c64696e672d726563666d6d656e6465722e6970796e62&nwo=jadianes%2Fspark-movie-lens&path=notebooks%2Fbuilding-recommender.ipynb&repository_id=38416915&repository_type=Repository>