

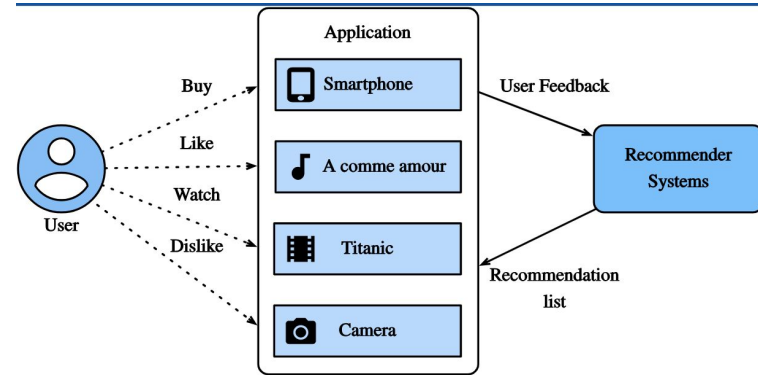


Recommendation System

Nirajan Bekoju

Recommendation System

- A recommendation system (or recommender system) is a class of machine learning that uses data to help predict, narrow down, and find what people are looking for among an exponentially growing number of options.



N SERIES

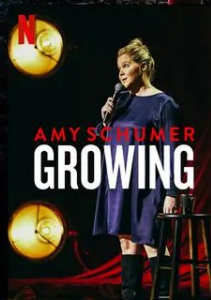
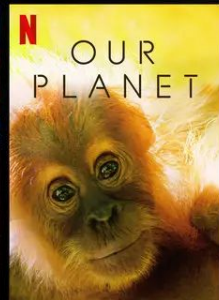
STRANGER THINGS

When a young boy vanishes, a small town uncovers a mystery involving secret experiments, terrifying supernatural forces and a strange little girl.

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4:12



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Yabesh Thapa

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Shorts





Terminology

- **Items:** The entities a system recommends.
 - For youtube: videos are items
 - For play store, apps are items
- **Query:** The information a system uses to make recommendation
 - User Information
 - User id
 - Items that users previously interacted with
 - additional context
 - time of day
 - the user's device



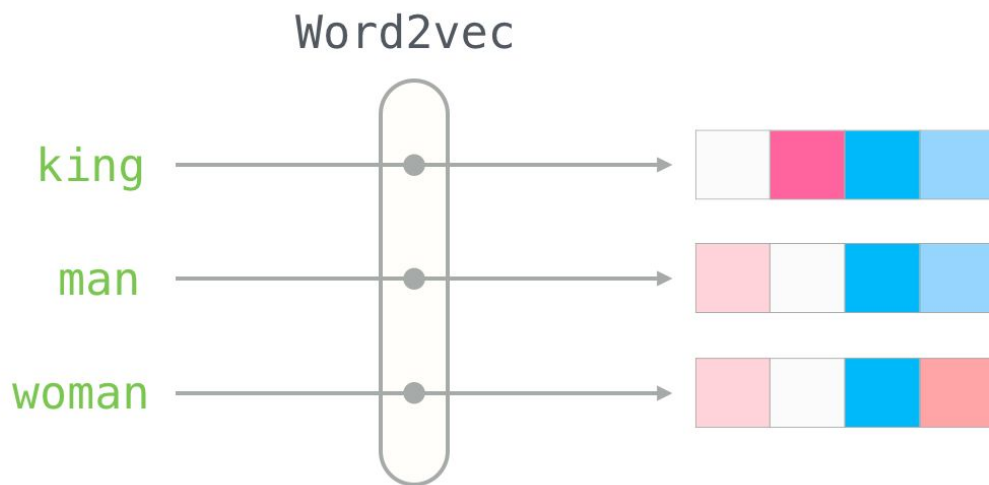
Youtube
Recommender
System

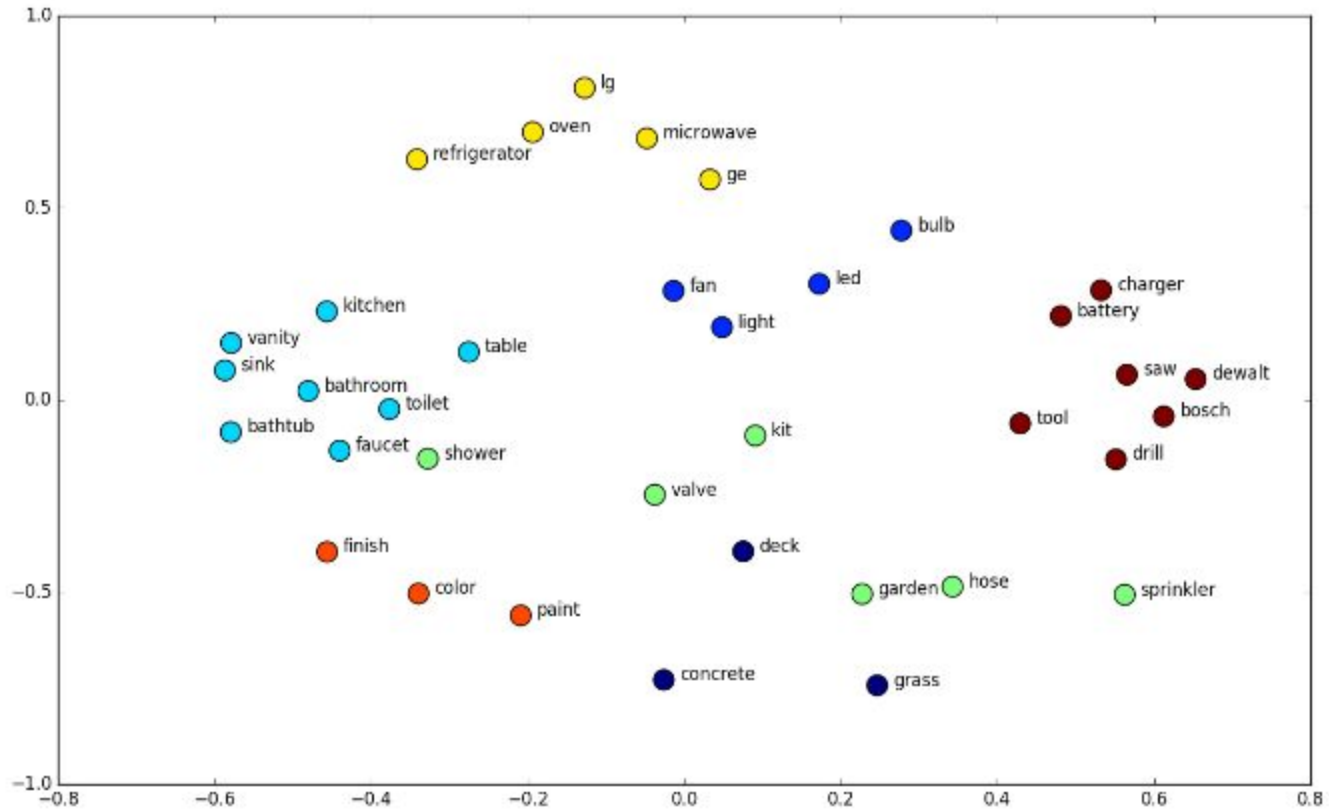
Youtube
Recommender
System

Youtube
Recommender
System

Embedding

- Mapping from a discrete set to a vector space







Recommendation Systems Architecture Overview



Candidate
Generation

Scoring

Re-ranking



Candidate Generation

- The system starts from a potentially huge corpus and generates a much smaller subset of candidates.
- A given model may provide multiple candidate generators, each nominating a different a subset of candidates.



Scoring

- This model scores and ranks the candidates in order to select the set of items (on the order of 10) to display to the user.



Re-ranking

- The system must take into account additional constraints for the final ranking.
- The system removes items that the user explicitly disliked or boosts the score of fresher content.



References

- <https://developers.google.com/machine-learning/recommendation>
- <https://jalammar.github.io/illustrated-word2vec/>
- <https://neptune.ai/blog/word-embeddings-guide>