

## SNS COLLEGE OF TECHNOLOGY



Coimbatore - 35

23BAT613 - Artificial Intelligence for Managers

Unit II – Unboxing ML & Its Applications



Presented by

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Design Thinker

#### **Redesigning Common Mind & Business Towards Excellence**







Build an Entrepreneurial Mindset through our Design Thinking FrameWork

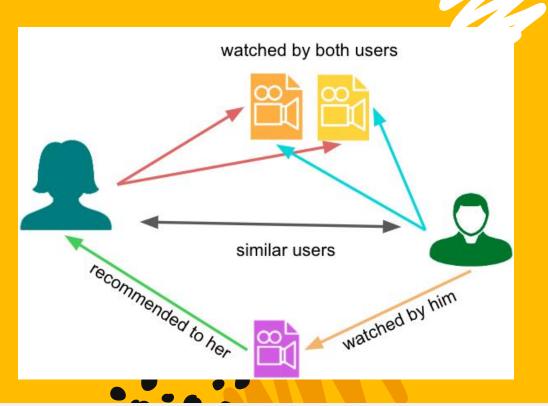


## **Guess the Topic!!!**





Recommendation Technique





- Reason to study Ensemble Technique
- >Ensemble Technique
- ► Ensemble Technique types
- ➤ Bootstrap Algorithm
- ► Boosting Algorithm
- >Stacking Algorithm



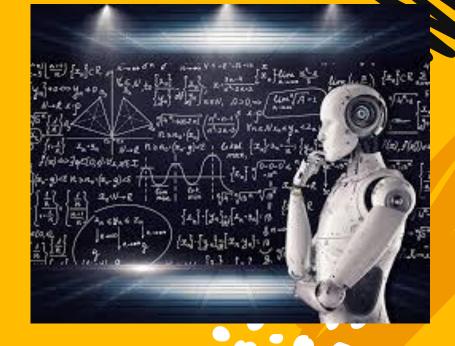






- Reason to study Recommendation

  System
- > Recommendation System & type
- Collaborative vs Content based
- > Architecture
- Example





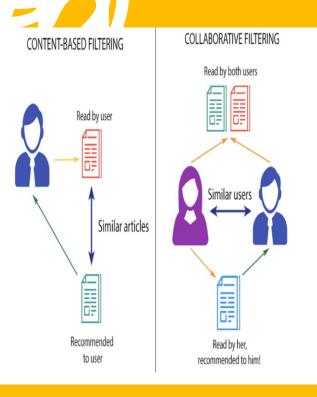


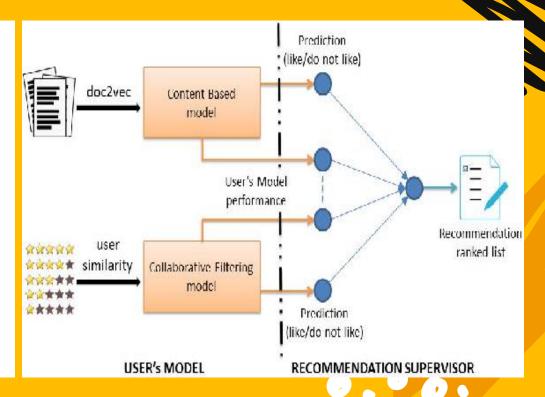
# Reason to study Recommendation System in Machine Learning



## Recommendation System - Types

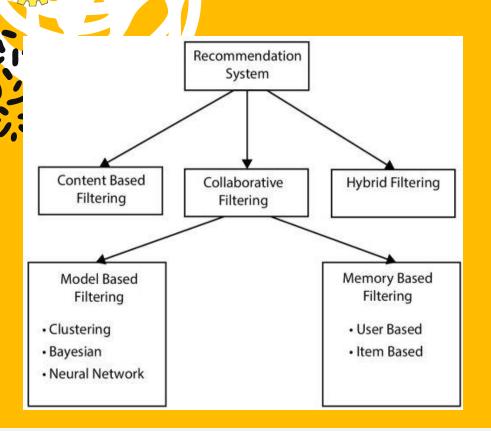


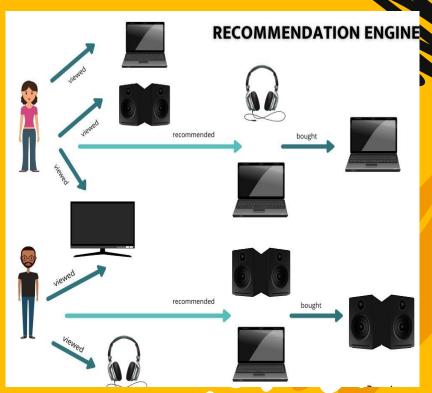




# Recommendation System









### **Content-based vs Collaborative Filtering**



#### **Content-Based**

- Use items metadata / tags
- Suggest items similar to what user liked in the past

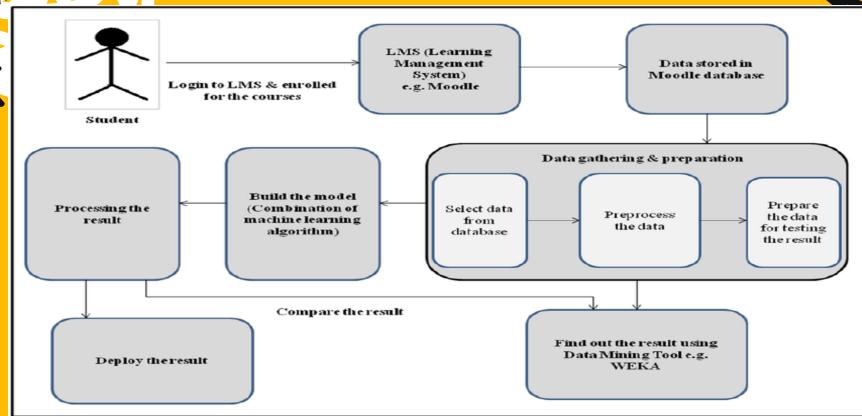






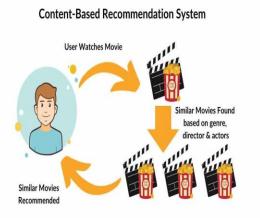
## **Recommendation System - Architecture**

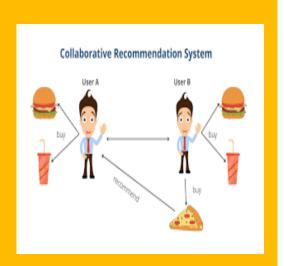


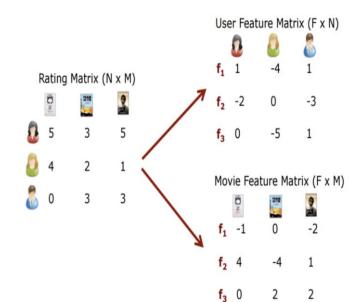














## **Knowledge Check**

Which technique in recommendation systems is based on the idea of identifying users with similar preferences and recommending items that one user's similar users have liked?

- X a) Content-based filtering
  - b) Collaborative filtering
  - c) Hybrid filtering
  - d) Association rule mining
  - Answer: b) Collaborative filtering







Reason to study Recommendation System

- Recommendation System & type
  - > Collaborative vs Content based
  - > Architecture
  - > Example







https://towardsdatascience.com/recommender-systems-a-complete-guide-to-machine-learning-models-96d3f94ea748





#### **REACH US**



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# Thanks!

