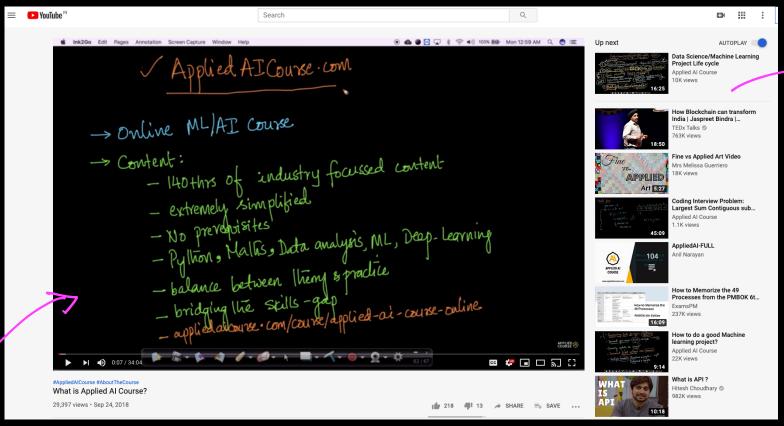
Simple Toutube Recommendation engine using basic Malh 615 oct 2019 Applied AI Course.com

Agenda Plan--> Understand The problem -> use simple qui lot matt to build a first-cut-solution -> Slightly advanced-malti (11th &12th)

Problem - definition.



Current video

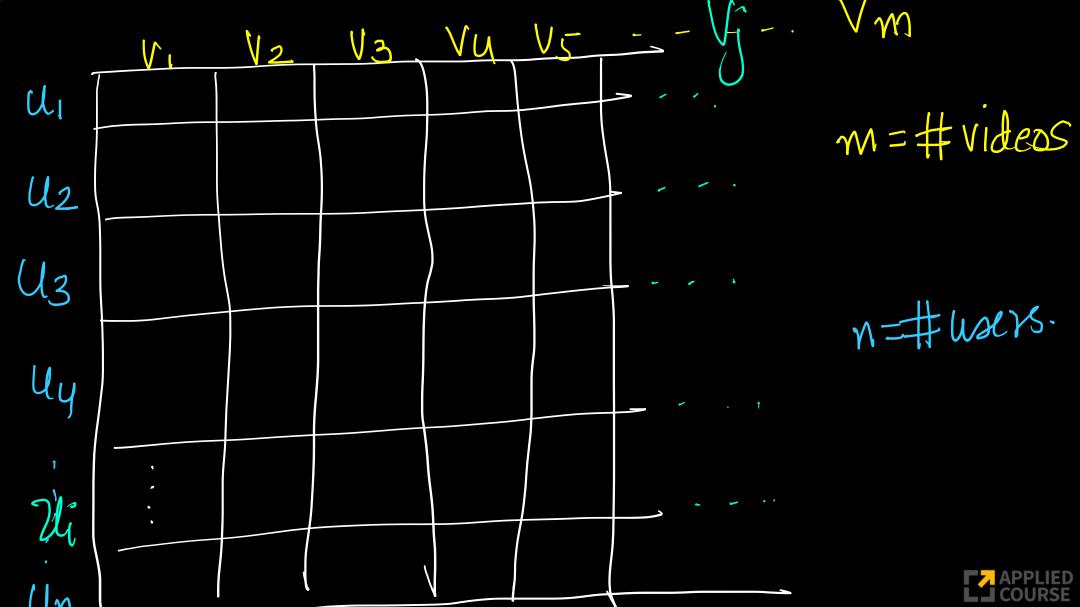




What dala does youtube have?



Dala - malnix

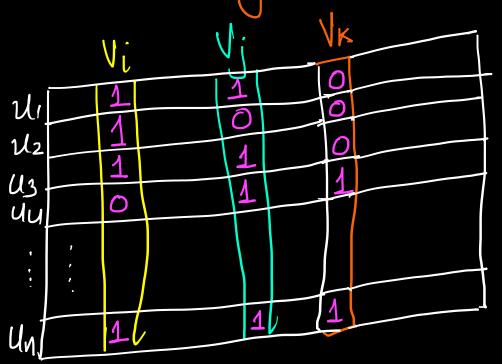


Simplest-idea: Similarily



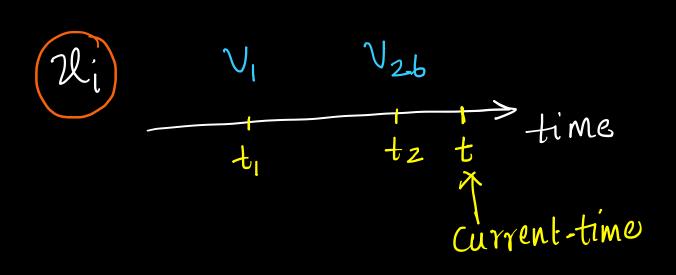
Finding Similar-videos Using Dala-imalax
Vi Vi Vi Vi

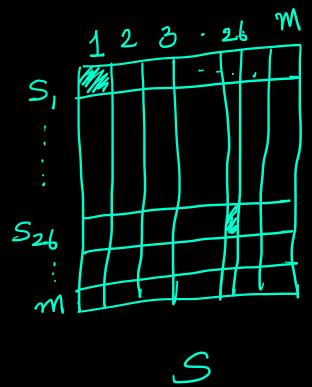
Sim(Vi) = VinVi





Recommend based on Similarity-scores-





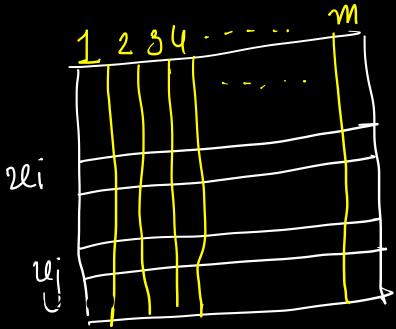


Pooblem/ Issue: Popular-videos

Ū	\	<i>j</i> ,	JK
1		1	4
1		1	1
\bigcirc		0	1
9		0	1
0		0	1
0		0	0
1		1	1
1	V	11	*



Similarity between users:





Deployment & Productionization

1B users
100 mM videas
New-videas-watched;



Eigen-values & Eigen-Veclor based Approvach

SVD &MF

 $A_{\text{n}\times \text{m}}$

