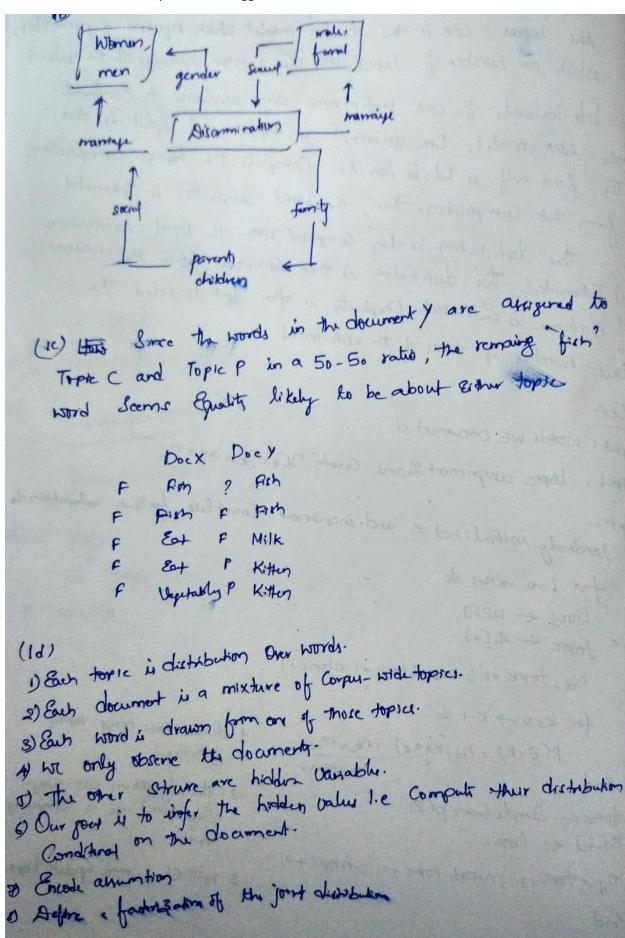
1) Latent Arichlet Allocation is a portabilistic used to generated the lopier. LOA is the sterative model which requires 8 parameters, which are number of hopics and deepa prior, knowledge of the datent the Evaluet the LDA performance using perplanity to Evaluet the LIPA model. On document is taken and Split in two. the first half is hed in LOA to Compute the topics composition, from that composition, then, the word abstribution is Entranted. This distribution is then composed with the word distribution the the is Estimated. This distribution is then Composed with the measure of distance is Entracted perplants is often und to solet the atly but number of topics of the LDA model de to own diput: Words WE Document of output: lopic aurgnment Zard Cowny M. K. Mk. w and Mk hardomly in Italized Z and increment Countless for Each interation do were tor iso > N-1 do MOND - WEIJ topic < * II) Nd, topk =1; hword, topic=1 ntopic=1 1 devide How may topicy for k=0 -> K-1 do P(Zrk), My, K+ax) = nx, N+PN younced 2. The algorithm will arigh End Every word to a temper topica Simple from p(Z1) mud. BCi) + tropic e will Chuk and updaly ton Na topics 1; nwood, topic +=1; ntopic +=1 End End



AL INCOME	ypa	arretti					es Topic - Pavamota N
to	ρ(β,0,2, ω) = (π P(β, h)) (π P(Zn/θω) P(Wa,n/B: k Za,n)) 2.a) K:3 renten be b; b; p, to D; . T4 = 2 D; to D; . Ti : 2.4 D; to D; . T7 · 2.6 D; to D; . Ti : 2.2 D; to D; . T7 · 2.6 D; to D; . Ti : 2.4 D; to D; . T7 · 2.1 D; to D; . Tr : 2.4 D; to D; . T7 · 2.2 D; to D; . Tr : 2.4 D; to D; . Tr : 2.8 D; to D; . Tr : 2.8 D; to D; . To D; . To D; . 2.8 D; to D; . To D; . 2.8 D; to D; . To D; . 2.1 D; to D; . Tr : 2.8 D; to D; . 3.9 D; to D; . 3.9						
- 443	De to D	D2 D5 D2 D5	22	Min	duli Dr		
	02 03 04	2.6 2.4 2.8 2.8 2.6 2.8 3.6 2.8 3.0 2.4 3.9	2.7 2.2 2.1 2.8 2.6	22 26 0	D2 D7 D7 D6 D2 D7		
7	D ₃ -	1.7 2.8 2.6 2.0 2.0 3.0 2.1 3.5	2.8 3.6 - 2.4	2.0	Dr Dr		

2.b) K-Means clustering pros: - 1) Past, Robins and Eure to understand 2) are Best hunt when date set are distint or well separated from I It is a great solution from pre-ducting. 4) works great from sphered ductor. put: We can infer contact epined of Sh sentence by a word court. @ We can durine the proporty that Each word constitut topiu. I are have to specify the number of topice. (on: 2) WOA'S efforcing is pretty low when compared to 5) LDA Councy Compose Co-relations. W unsuperorned of an BON (wor are Englangble)