

d1: Decision theory investigates decision problems: how an agent deals with choosing among actions.																		
d2: Reinforcement learning is a type of unsupervised learning where an agent learns how to behave in an environment.																		
d3: Information retrieval deals with representing information objects.																		
q: agent action																		
decision, theory, investigates, problems, how, an, agent, deals, with, choosing, among, actions, reinforcement, is, a, type, of, unsupervised, where, learns, to, behave, in, environment, Information, retrieval, representation, objects																		
	11.03.01								11.03.02		11.03.03				11.03.04			11.03.05
	n1	tf(t, d1)	n2	tf(t,d2)	n3	tf(t,d3)	nq	tf(t,q)	N(t)	idf(t,D)	A1	A2	A3	B = tfidf(t,q,D)	cos 01	cos 02	cos 03	
Words / text (t)	no.of occurrence of word in d1	n1/total no of words in d1	no.of occurrence of word in d2	n2/total no.of words in d2	no.of occurrence of word in d3	n3/total no.of words in d3	no.of occurrence of word in q	nq/total no.of words in q	no.of occurrence of word in the document D (i.e. in d1 , d2 and d3)	LOG(4/N(t)) as n=4, (d1, d2, d3 and q)	tfidf(t,d1,D) = tf(t,d1)* idf(t, D)	tfidf(t,d2,D) = tf(t,d2)* idf(t, D)	tfidf(t,d3,D) = tf(t,d3)* idf(t, D)	tf(t,q)* idf(t, D)	cos 01 = (A1 . B) / A1 . B	cos 02 = (A2 . B) / A2 . B	cos 03 = (A3 . B) / A3 . B	
decision	2	0.15384615	0	0	0	0	0	0	1	0.602059991	0.092624614	0	0	0	4,38714785	0,62060725	0	The cosine similarity measures the similarity between two vectors based on the cosine of the angle between them. A higher cosine similarity score indicates a higher degree of similarity between the vectors. In order of decreasing cosine similarity (cos 01 > cos 02 > cos 03)
theory	1	0.07692308	0	0	0	0	0	0	1	0.602059991	0.046312307	0	0	0				
investigates	1	0.07692308	0	0	0	0	0	0	1	0.602059991	0.046312307	0	0	0				
problems	1	0.07692308	0	0	0	0	0	0	1	0.602059991	0.046312307	0	0	0				
how	1	0.07692308	1	0.05555556	0	0	0	0	2	0.301029996	0.023156154	0.016723889	0	0				
an	1	0.07692308	2	0.11111111	0	0	0	0	2	0.301029996	0.023156154	0.033447777	0	0				
agent	1	0.07692308	1	0.05555556	0	0	1	0.5	3	0.124938737	0.009610672	0.006941041	0	0.062469368				
deals	1	0.07692308	0	0	1	0.14285714	0	0	2	0.301029996	0.023156154	0	0.043004285	0				
with	1	0.07692308	0	0	1	0.14285714	0	0	2	0.301029996	0.023156154	0	0.043004285	0				
choosing	1	0.07692308	0	0	0	0	0	0	1	0.602059991	0.046312307	0	0	0				
among	1	0.07692308	0	0	0	0	0	0	1	0.602059991	0.046312307	0	0	0				
actions	1	0.07692308	0	0	0	0	1	0.5	2	0.301029996	0.023156154	0	0	0.150514998				
reinforcement	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
is	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
a	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
type	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
of	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
unsupervised	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
where	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
learn	0	0	3	0.16666667	0	0	0	0	1	0.602059991	0	0.100343332	0	0				
to	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
behave	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
in	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
environment	0	0	1	0.05555556	0	0	0	0	1	0.602059991	0	0.033447777	0	0				
Information	0	0	0	0	2	0.28571429	0	0	1	0.602059991	0	0	0.17201714	0				
retrieval	0	0	0	0	1	0.14285714	0	0	1	0.602059991	0	0	0.08600857	0				
representation	0	0	0	0	1	0.14285714	0	0	1	0.602059991	0	0	0.08600857	0				
objects	0	0	0	0	1	0.14285714	0	0	1	0.602059991	0	0	0.08600857	0				
											0.011429452	0.008574599	0.033649167	0.081481879				
											A1	A2	A3	B				