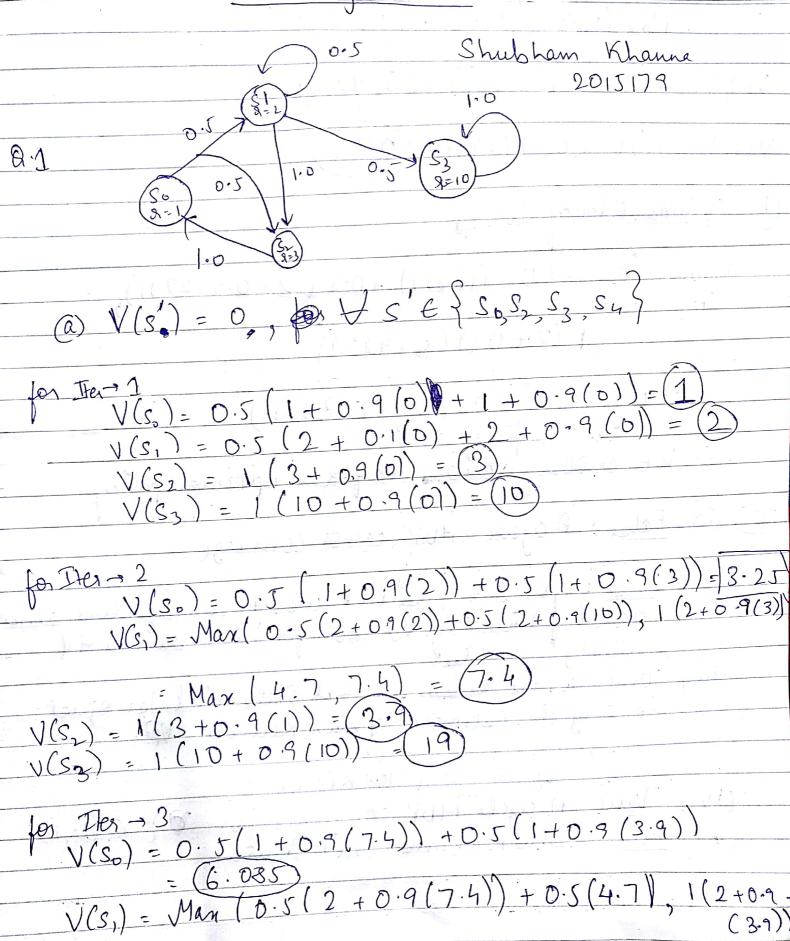
ML ASSignment - 4



= Max (13-88, 5.51) = (13-88) V(S2) = 1(3+0.9(3.25)) = (5.925 $V(s_3) = 1(10 + 0.9(19)) = (27-1)$ b) Optimal O Policy for S. agmax (0.5 (2+0,9 (13-88)) +0.5 (2+0.9 (27.1)) 1 (2+0.9 (5.925)) e argnan (20.44) 7.3325) i. We choose actions to form optimal policy (i) False: A cyclic MDP cannot connerge False: for 9=1, MDPI won't converge over since agent juill try to look for higher remard til True as the costinate of man Remard. (015(2)+01(1-1))+05(4-1) +05 (4-1)

2) No. of uncompressed bits = N2 x 8 x 3 = 24 N² No. of compressed " = N² x log k + 24 k : Compression ratio = 24 N² N² (log, k + 24 k) where k = no. of clusters