K-MEANS Implementation implementation (station in Mag Reduce Ha installation () -) shell script for different x-values 9 -) Python Visualization for optimal k value (Elsow Heoren) young with different datasets. Sample Data K=2 Or K=3? which is the optimum k (1,2,2) (3,5,3) (1,0) (2,0,8) (3,0,8) -2 3 4 5 6 7 8 9 10 11 Basic Implementation --) Read CSV file 3 -) Acray list of points (input) U I choose random & pointe as center. -) Distance bet each point + center to be calculated. (Euclidean distance) > clusters with ((enter, points) -) recompute new centers. -> Iterate till convergence

doss extending MapReduceBase -> write Mapper reduce dars -> white Test for smaller input Indextand example wordcount program Map Reduce framework (for k=3) Distributed system centroids file (with values) 14appers Distance Input blehut Input file pout) /certes, (teste, (center, gourt) cerder - pty Certer3 pt / clustering Reducers. rewcentry After Heration Stops Output file