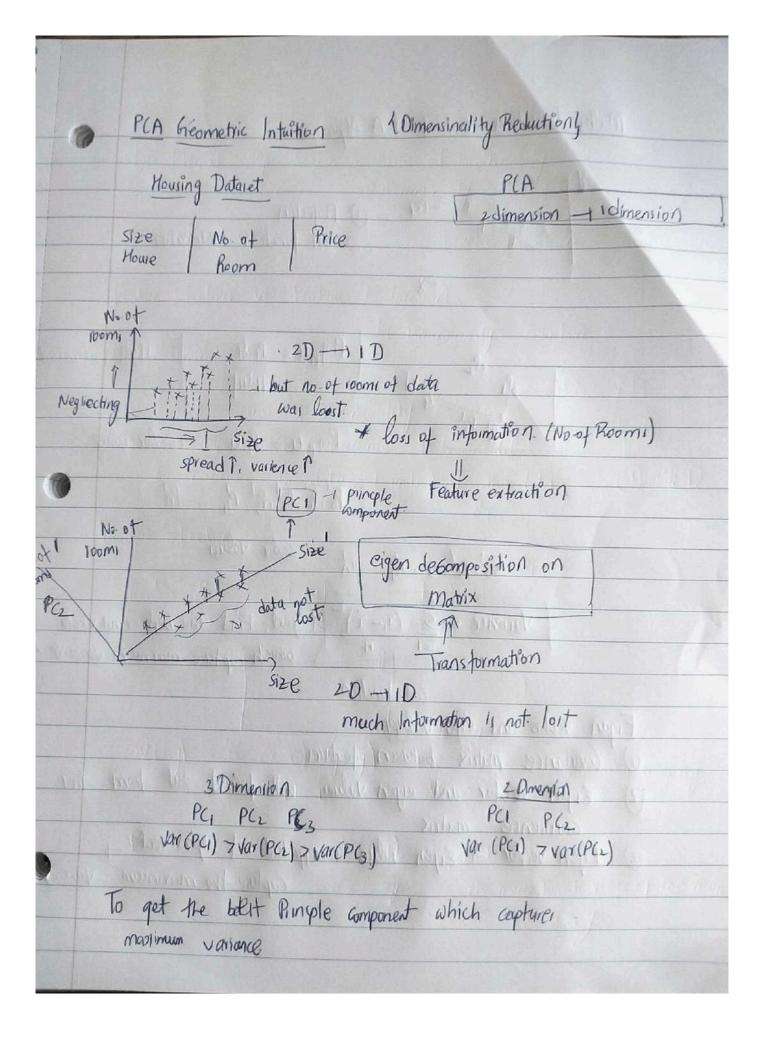


+ we are tyying to extract a new teature from the old one which is alredu present Feature extraction Imp teatures 2 teareur - 1 teature Home STZE No. 0 + 100m1 Price Tranformation to extract new teatures House size Feature selection Op depende - Undependent House . Fountain Price Size size Price of Piker { Kinear Relationship} & Not have more Gov = +ve Relationship Ho (01) Changei so Housesize -ve we can Fourtain drop column from the table



Maths Intuition behind RCA Algoritm 2 Cost function - Variance Proppy = PIN 1/41/=1=1 unit vet Proper = P. 4 >- scalar value PoiRi, P2, B1, P4 ... Pn 20/22/23/24/11/1/ scalar value Varience = $\frac{S}{S} (2i-x)^2$ { Good: Find the best cust vector which capture maximum variance Cost function Eigen veutors and eigen values Couriance matrix between teatures 3 Eigen vector and eigen values will found out from this covarience matrix 3 Eigen vector - Eigen value + magnitud of eigen vector Capture the maximum yarrang of the terminal striple comments which the place