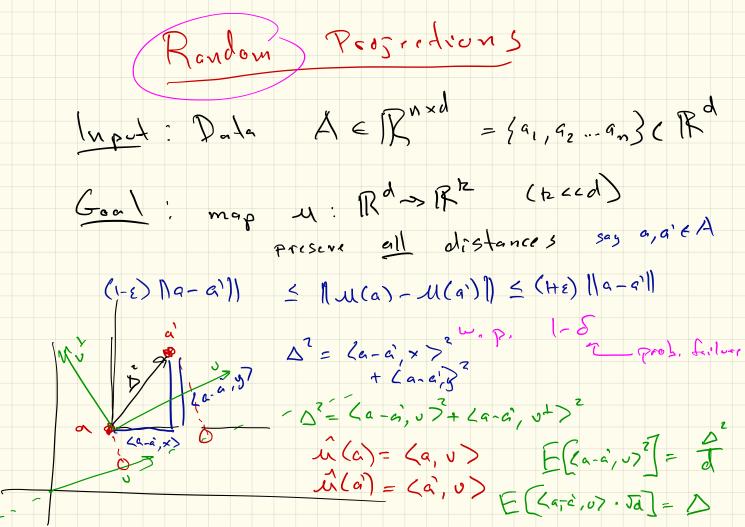
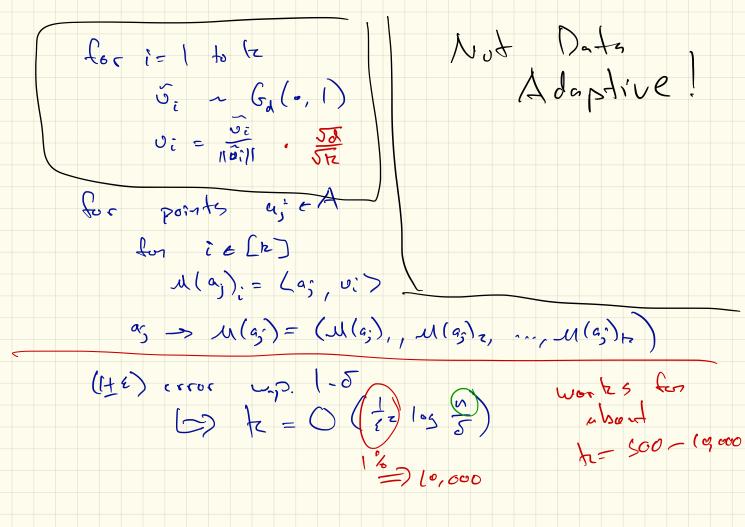
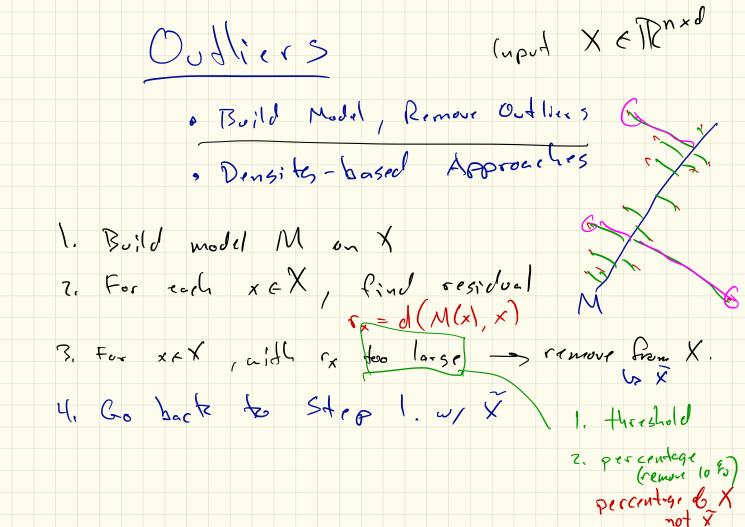
[19: Noise in Date

- · Kandom Projections
- s Outliers
- · Matrix Completium





Doise in Data Passon in Sporrious Readings; Contliers Miliers Denisn, SSE Completions, régularizedien s Background Data! mixed in, or missing matrix completion



Dinsidy - based Approach Clustring. · DB-Scan

· Revisse- Nearest Wishmor distance to NN(p) 119-711 compare te 1(g - NN(g) 11 If comparable

P not octlier

Matrix Completoon (upul A E TR nxd but wy some? x replace each X by average d_{1} sev and column.

a 550m d_{2} d_{3} d_{4} d_{1} d_{2} d_{3} d_{4} d_{2} d_{3} d_{4} d_{2} d_{3} d_{4} d_{4} d_{5} d_{5}

 $\phi_{\lambda}(s) = diag((s_{11}-\lambda)_{+}, (s_{12}-\lambda)_{+}, \dots (s_{n2}-\lambda)_{n})$ $(x)_{t} = \max\{x, 0\}$ Market X (ompretion

Market X (ompretion

Instialize X, E (7/4 (As)

and (rough) if (1/3) ex singular values

and (rough) cold is USVT & sud (X) (5) VT XETh(A) + Th(x) e. riplace tenomes.