Bons - Opplicator - Example - we have ID data points and they made less be an stragged his -Do we can decribe the data by mapping it onto that link and say haw for they are on the line. 2 Demensions.

3 Demensions.

4 Demensions.

4 Demensions.

4 Demensions.

4 Demensions.

4 Demensions.

5 Demensions.

6 Demensions.

7 Demensions.

8 Demensions.

8 Demensions.

8 Demensions.

8 Demensions.

9 Deme

and all he other point are sugnly destance of Rom line hawfor from line (B) i really how nowy he data Chard is (from line) (timeour) => Spread (by distance away)
=> manu (small distance away) distance from line = NOISE But hout NOISE Dan tells how good he Ine Reitis 2 deductis of:

3 atong and away from the

3 hat key are onthogenal from

is that key are onthogenal from Cach other, so we can use he dot product to do he proportion.

to map he data from x, y space on to space of how on the line and away from line If we apply his to a neural network in ML. Most Riognise fact - ne want to make some transformations Bosis hat describe nose shape, Stin hue, distince between very eye, and then discerethe actual pixel data. god of Learning processof no sto some haw derive a set set of basis vectors had extract he most reponation rich floature of faces Kecep: [+ peroi Mobile] We talked about the demonstratify
of vector space 150 he number
of independent vector space hat we fland a Fest for endependence and what hat means 150 mapping from one space to mather. and haw its going to be welled in Dalastone and haw its going to be welled in Dalastone.