PCA

Xell2 mxn

n # samples

$$x_{ij} = x_{ij} - y_{ij}$$
 $x_{ij} = x_{ij} - y_{ij}$ 
 $x_{ij} = y_{ij} - y_{ij}$ 

height 
$$X_{i}$$
  $X_{i}$   $X_{i}$ 

X=UEVT

$$\frac{\sqrt{\frac{1}{N-1}}}{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}}{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}}}{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}}{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}}}{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}}{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}} \underbrace{\sqrt{\frac{1}{N-1}}}$$

$$\frac{1}{\sqrt{k}} = \frac{1}{\sqrt{k}} = \frac{1$$

