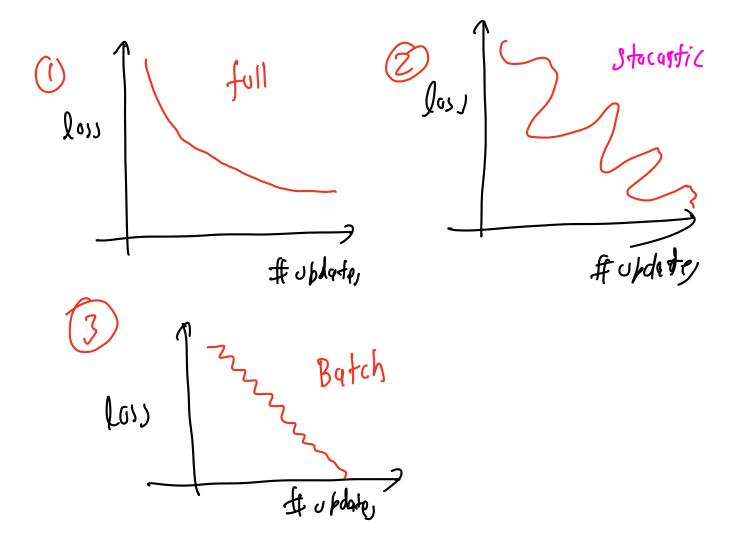
PCA (Principal component Analysis)

Stocastic GD

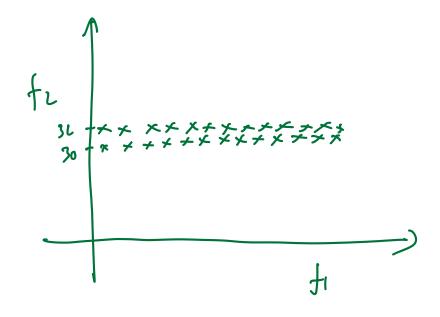
$$0^{++1} = 0^{+} - N$$

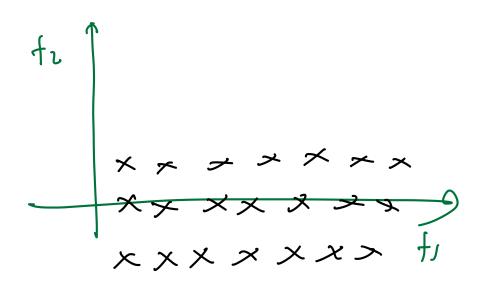
$$0^{+}$$

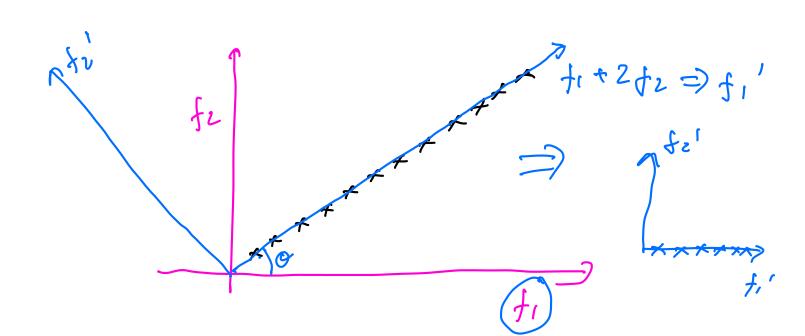


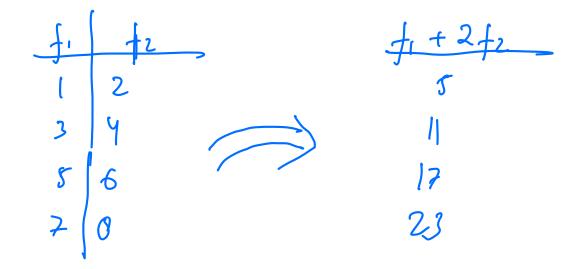
PCA

weight	Age	Diabeter			
20	30			γ κ	
30	50	-	مليان م	*	
25	30	<u>~</u>	weight	*	
48	30			X	
64	30	_		Age	

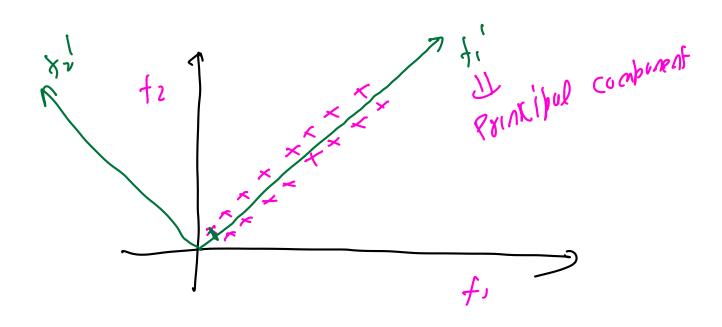








f' => Principal component



$$|d_{1}|$$

$$|d_{1}|$$

$$|d_{2}|$$

$$|d_{2}|$$

$$|d_{3}|$$

$$|d_{4}|$$

$$|d_{5}|^{2}$$

$$|d_{5}|^{2}$$

$$|d_{1}|$$

$$|d_{6}|^{2}$$

$$|d_{1}|$$

$$|d_{6}|^{2}$$

$$|d_{1}|$$

$$|d_{1}|$$

$$|d_{1}|$$

$$|d_{1}|$$

$$|d_{1}|$$

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$$|d_{1}|$$

$$|d_{2}|$$

$$|d_{1}|$$

$$|d_{1}|$$

$$|d_{2}|$$

$$|d_{1}|$$

$$|d_{2}|$$

$$|d_{3}|$$

$$|d_{1}|$$

$$|d_{1}|$$

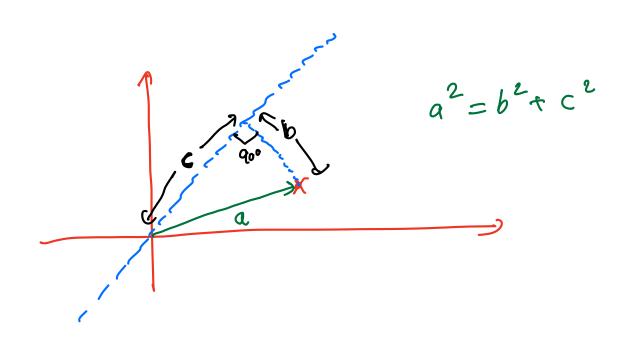
$$|d_{2}|$$

$$|d_{3}|$$

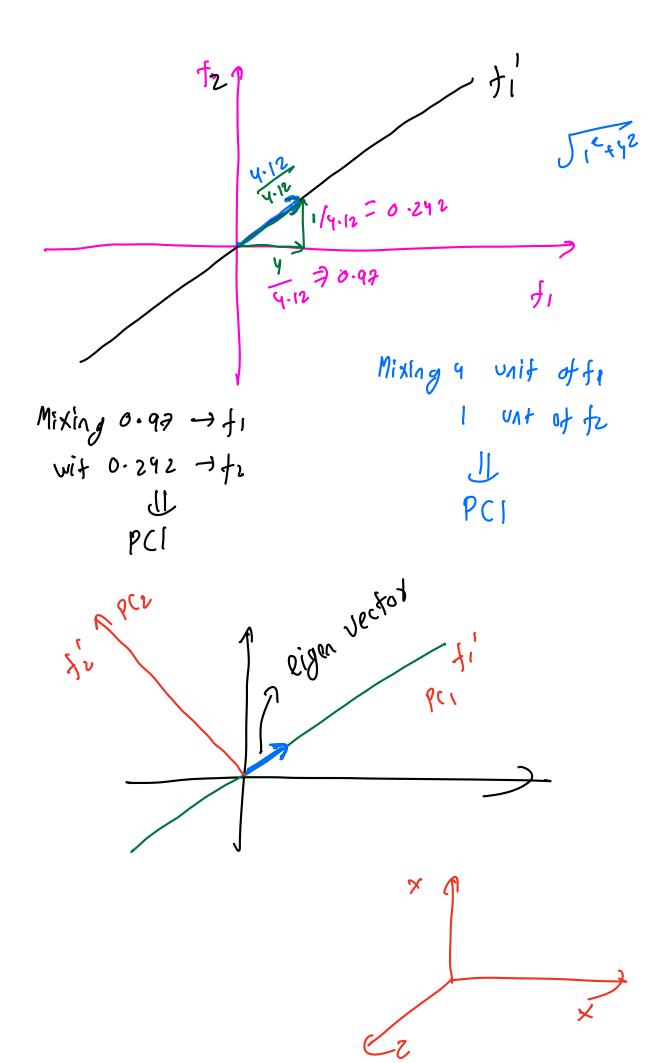
$$|d_{4}|$$

$$|d_{5}|$$

 $\frac{235}{3.5}$ $\frac{-38}{120}$ $\frac{1}{120}$ $\frac{1}{120}$



Bregk: B: 14 gm



PCI

$$Var(P(1) = 15 \Rightarrow 15/17 = 0.80$$

 $Var(P(2) = 2 \Rightarrow 2/17 = 0.12$

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