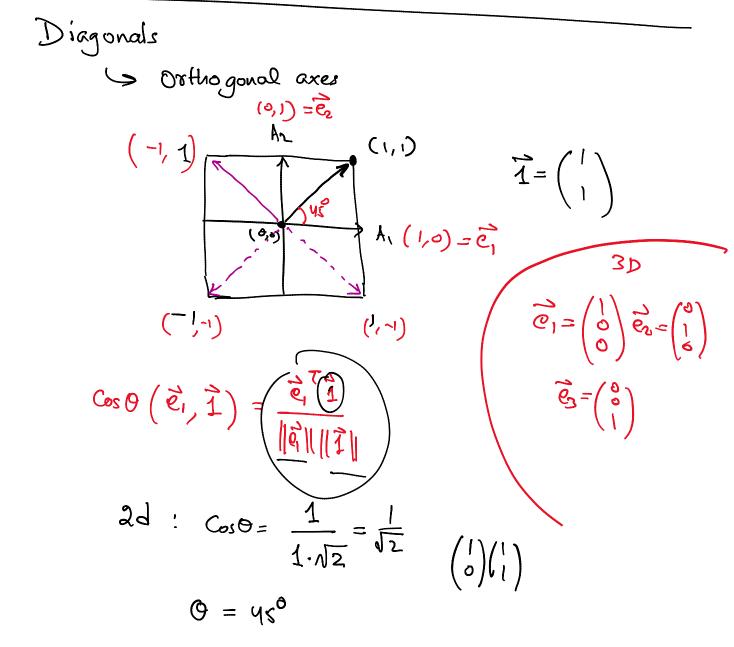
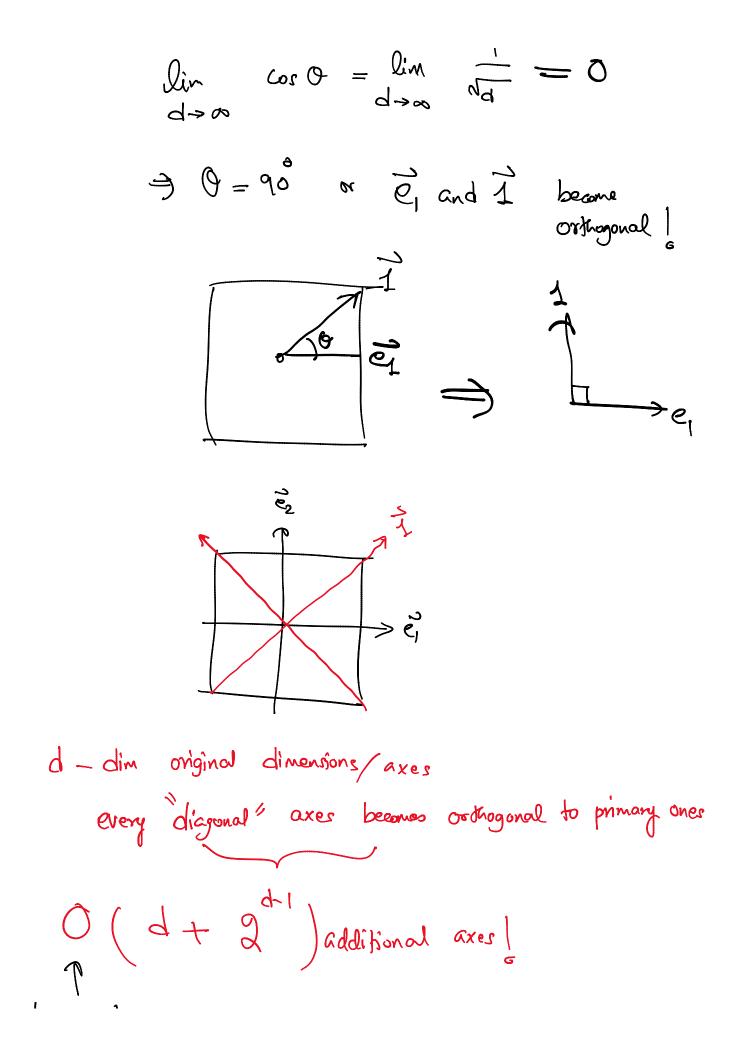


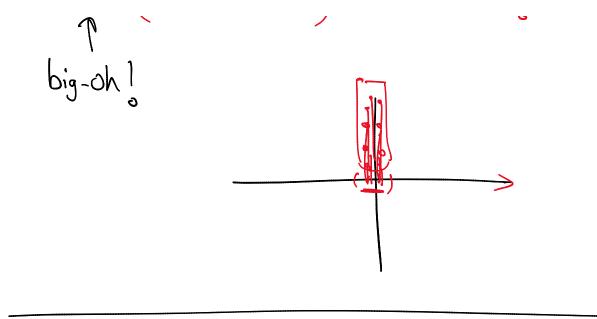
35 > 784 lower-din representation 28

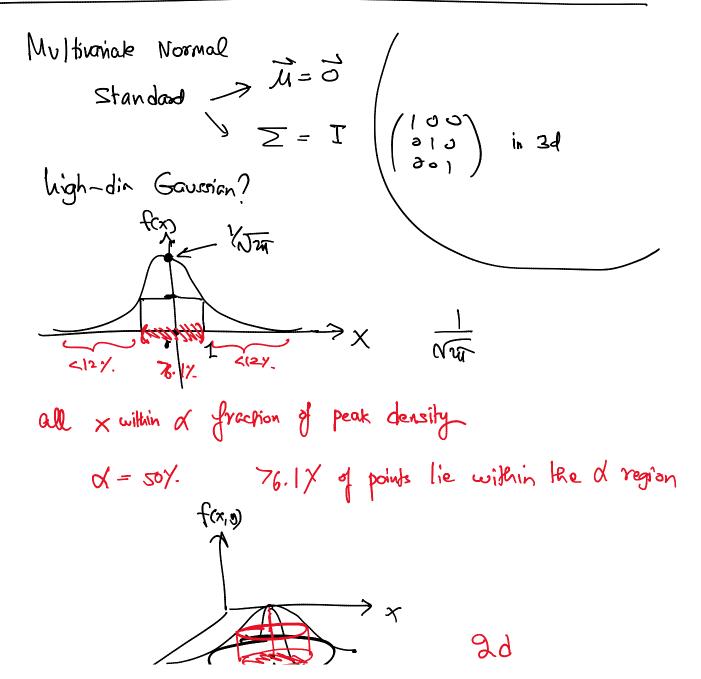
later space

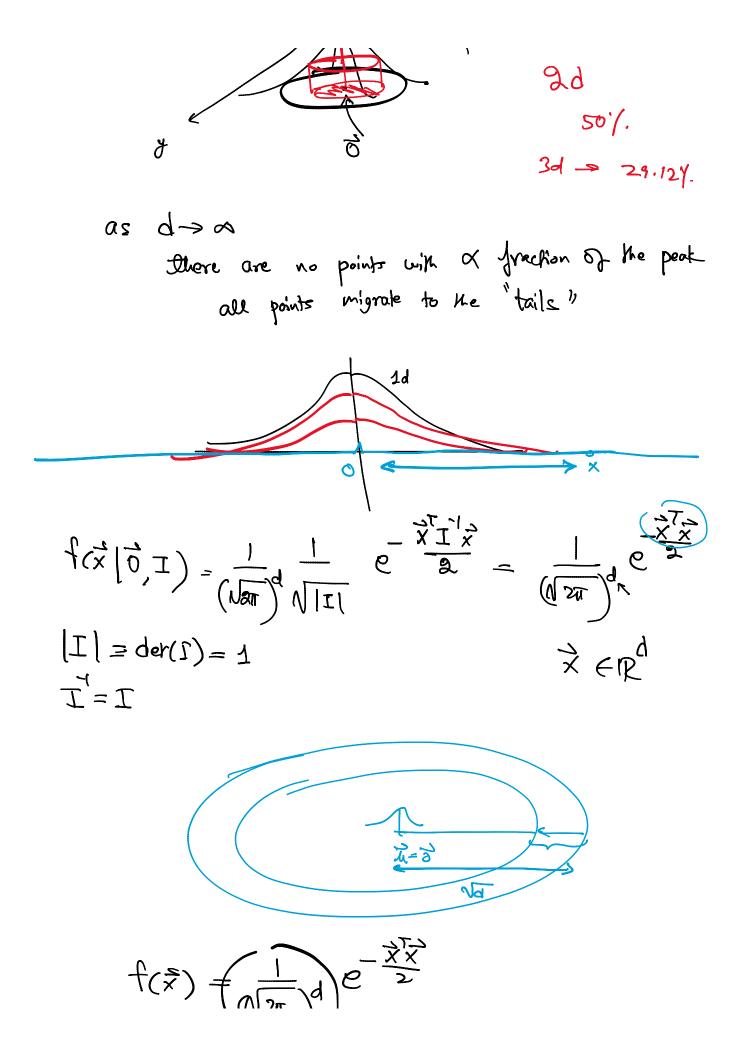
Xateur space dim << 784





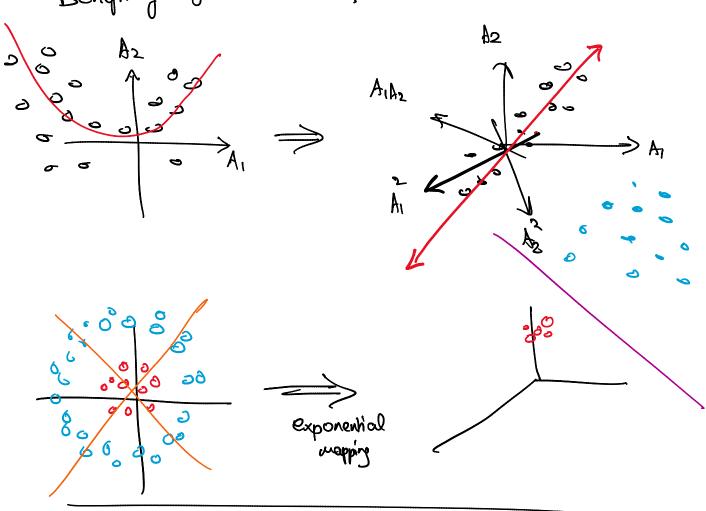


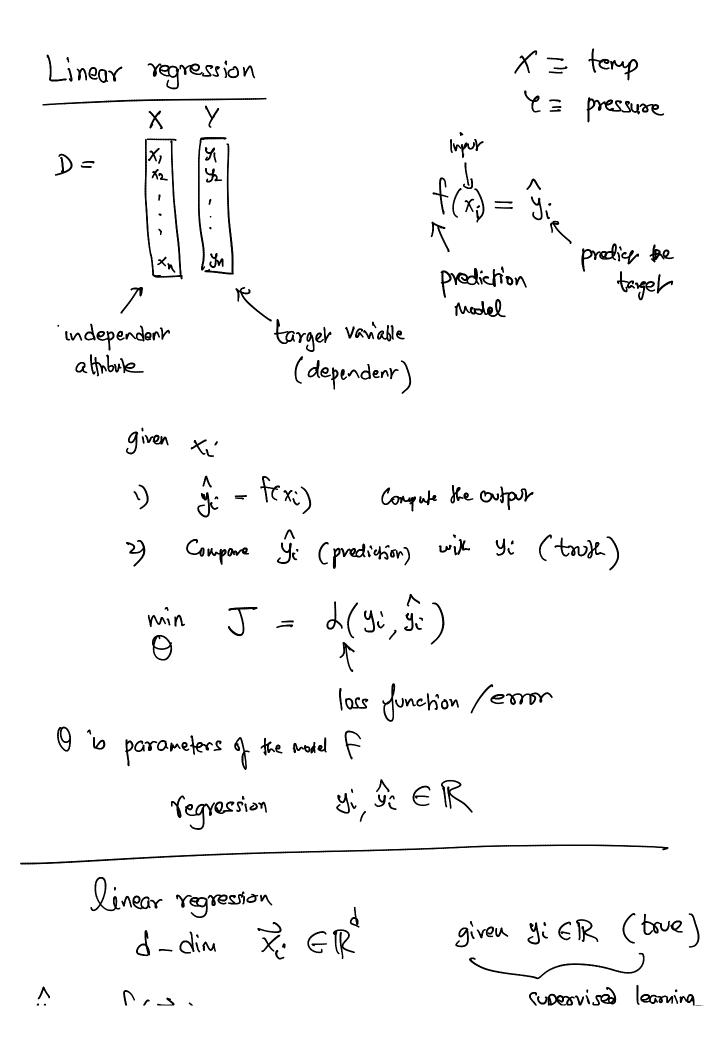




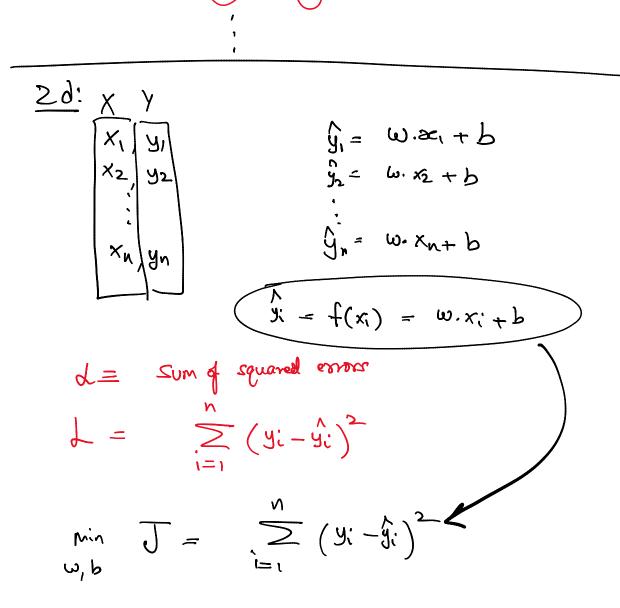
ger for convolutive distribution for
$$\chi^2$$

Qin $P(\chi^2_d \leq -2 \ln d) = 0$
 $d \geq \infty$ $Q(\chi^2_d \leq -2 \ln d) = 0$
 $Q(\chi^2_d = -2 \ln$





$$\begin{aligned}
\hat{y}_{i} &= \hat{f}(\vec{x}_{i}) = \underbrace{w_{1} \times u_{1} + \underbrace{w_{2} \times u_{2}}_{X_{i}2 + i}}_{G_{i}} & \text{Supervised learning} \\
\hat{y}_{i} &= \hat{f}(\vec{x}_{i}) = \underbrace{w_{1} \times u_{1} + \underbrace{w_{2} \times u_{2}}_{X_{i}3 + i}}_{G_{i}} & \hat{x}_{i} = \begin{pmatrix} x_{i}, \\ x_{i}, \\$$



$$= \sum_{\substack{i=1\\i=1}}^{n} \left(y_{i}^{i} - \left(\omega \cdot x_{i}^{i} + b \right) \right)^{2}$$

$$J = \sum_{\substack{i=1\\i=1}}^{n} \left(y_{i}^{i} - 2 y_{i}^{i} \left(\omega x_{i}^{i} + b \right) + \left(\omega x_{i}^{i} + b \right)^{2} \right)$$

$$\frac{\partial J}{\partial b} = \sum_{\substack{i=1\\i=1}}^{n} \left(-2y_{i}^{i} + \vartheta(\omega x_{i}^{i} + b) \right) = 0$$

$$= \sum_{\substack{i=1\\i=1}}^{n} y_{i}^{i} = \sum_{\substack{i=1\\i=1}}^{n} \omega x_{i}^{i} + \sum_{\substack{i=1\\i=1}}^{n} \sum_{\substack{i=1\\i=1}}^{n} \psi x_{i}^{i} + \sum_{\substack{i=1\\i=1}}^{n} \psi x_{i}^{i} + \sum_{\substack{i=1\\i=1}}^{n} \sum_{\substack{i$$

$$\Rightarrow b = \frac{1}{N} \sum g'_{i} - w \cdot \left(\frac{1}{N} \sum x_{i}'\right)$$

$$b = M_{Y} - w \cdot M_{X} \qquad M_{Y} = Mean(Y)$$

$$M_{X} = Mean(X)$$

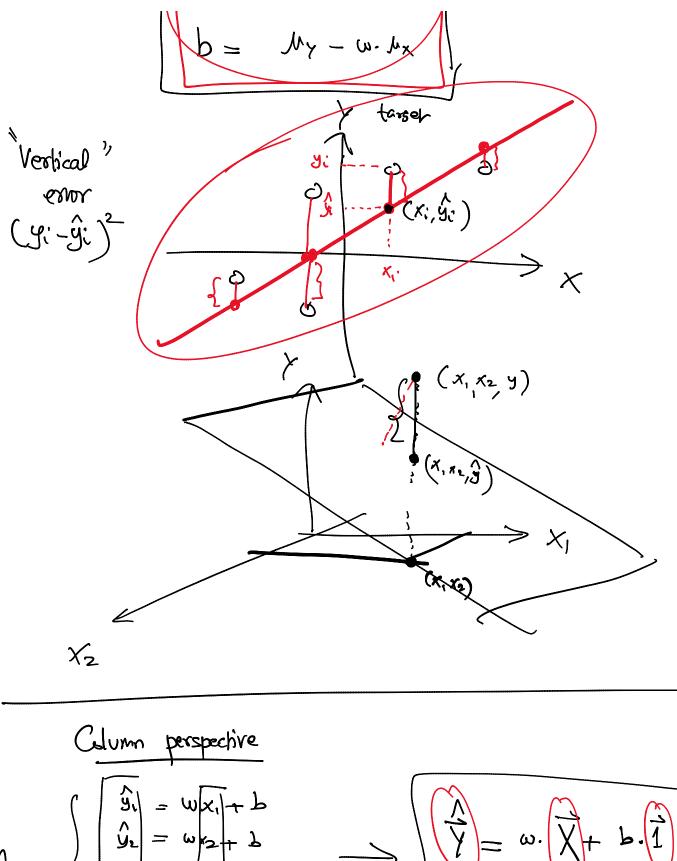
$$M_{X} = Mean(X)$$

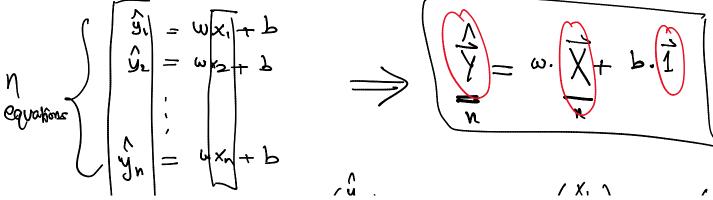
$$M_{X} = Mean(X)$$

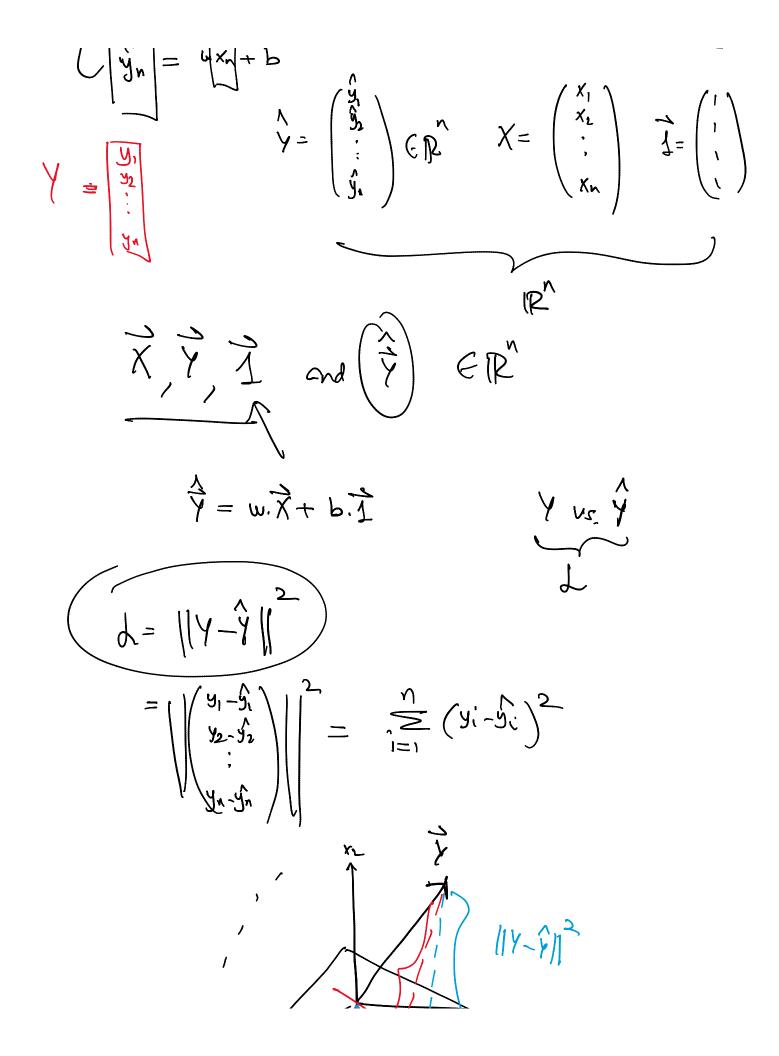
$$= \frac{\sum x_i y_i' - n \cdot h_x \cdot h_y}{\sum x_i'^2 - n \cdot h_x'}$$

$$= \frac{C_0 \cdot (x, y)}{V_{Cr}(x)}$$

$$= \frac{M_y - w \cdot h_x}{W_{Cr}(x)}$$







x, $\gamma = w.x + b.1$ prediction must be a linear Combination of X and I $Y \in \operatorname{span}\{X, \tilde{I}\}.$ N Y is simply the projection of Y onto the mar soanny pace spanned by X and I θ ¥ گ $\text{Span} \{ \vec{x}, \vec{1} \} = \text{Span} \{ \vec{x}, \vec{1} \}$ Jostkop. nal barir $\dot{Y} = pr\dot{g}(Y) + Pri_{\vec{j}}(Y)$