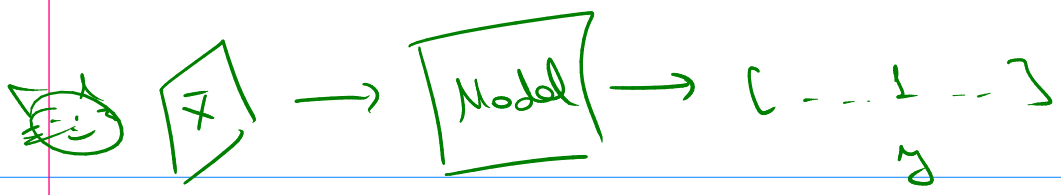
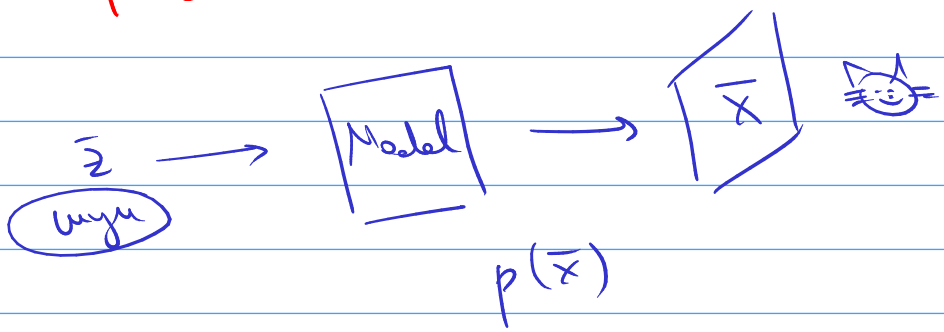


$p(y|\bar{x})$



$p(\bar{x})$

Naive Bayes

$$p(\bar{x}, y) = p(y) \prod_i p(x_i|y)$$

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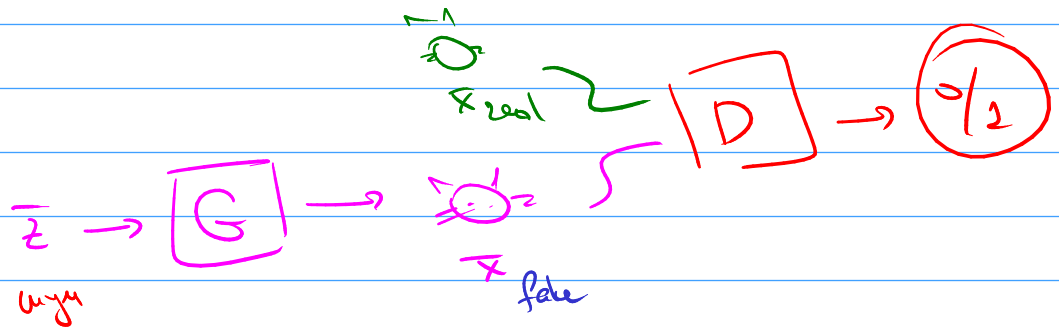
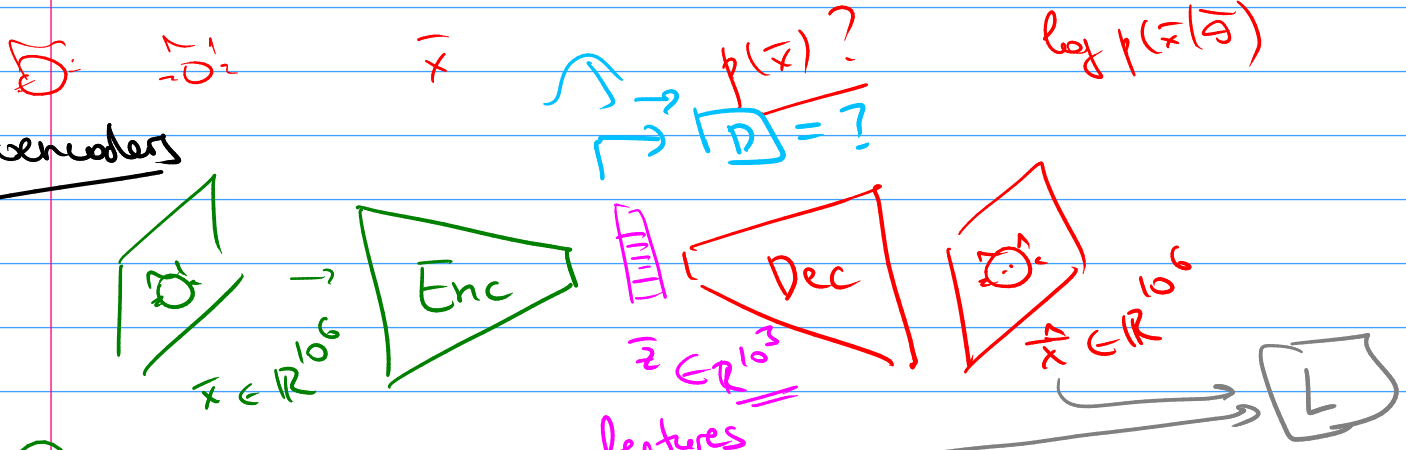
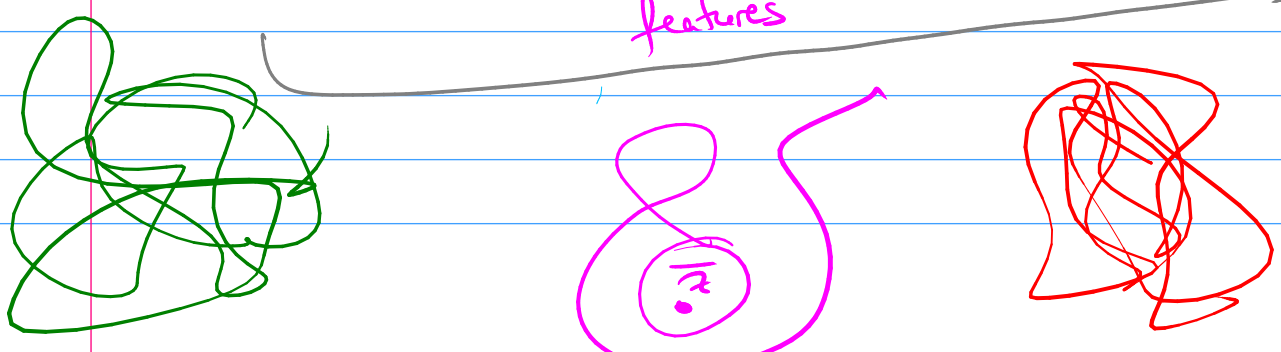


$p(\bar{x})$?





$$\det \frac{d\bar{z}}{d\bar{x}}$$

$$\begin{pmatrix} \partial z_1/\partial x_1 & \partial z_1/\partial x_2 & \cdots \\ \vdots & \vdots & \\ \partial z_n/\partial x_1 & \partial z_n/\partial x_2 & \partial z_n/\partial x_n \end{pmatrix}$$

$$\prod_{\bar{x} \in D} p(\bar{x} \mid \bar{\theta}) \longrightarrow \max$$

$$\sum_{\bar{x} \in D} \log p(\bar{x} \mid \bar{\theta}) = \sum_{\bar{x} \in D} \left(\log \pi_0(\bar{z}_0) - \sum_k \left| \det \frac{df_k^{-1}}{d\bar{z}_k} \right| \right)$$