P(A,B)=P(A/B)P(B)=P(B/A)P(A) P(A1B) = P(B|A)P(A)  $P(B) = \begin{cases} P(B) & \text{if } i = 1 \dots N \end{cases}$  $P(\theta,T) = P(\theta|9)P(9) = P(9|\theta)P(\theta)$  $P(\theta/9) = \frac{P(9/\theta)P(\theta)}{P(9)} - evidence$ P(O)-anpuopuoe paenpe O prioz P(T/O) - likelihood
apabgonogooue bosopke P(OIT) - ausere personne poemp - - o . E 0= argmax P(J/0)

 $M(X_i)$   $S(X_i)$ J (M, 62) LINE  $L: \mathcal{M} = \Theta^{\mathsf{T}}_{\mathsf{X}_i}$ livear J. i.i.d.  $N: \quad y \sim \mathcal{N}(\mu, 5^2)$ no zma/ E: 52262 equivarionce

$$P(x_{i}, y_{i}, \theta) = \frac{1}{(976)^{2}} e^{-\frac{(y_{i} - \mu_{i})^{2}}{26^{2}}} e^{-\frac{(y_{i} - \mu_{i})^{2}}{$$