$$f_i(x) = f^*(x) + \varepsilon_i(x)$$

$$S \cdot \mathbb{E} \mathcal{E}_{i}(x) = 0, \quad \mathbb{E} \mathcal{E}_{i}(x)^{2} = \sigma \mathcal{E}_{i}^{2}$$

$$\mathcal{E} \mathcal{E}_{i}(x) \mathcal{E}_{i}(x) = 0, \quad \mathcal{E} \mathcal{E}_{i}(x)^{2} = \sigma \mathcal{E}_{i}^{2}$$

Aggregate model: 
$$f(x) = \sum_{i=1}^{m} f_i(x)$$
.

Compare ① 
$$E(x) = \frac{1}{m} \sum_{i=1}^{m} E(f_i(x) - f^*(x))^2$$
②  $\overline{F}(x) = E(f(x) - f^*(x))^2$ 

$$\begin{array}{cccc}
\widehat{\mathcal{D}} & \overline{\Xi}(x) &= & \overline{\Xi}\left[\frac{1}{m}\sum_{i=1}^{m}(f_{i}(x)) & - & f^{*}(x)\right]^{2} \\
&= & \overline{\Xi}\left[\frac{1}{m}\sum_{i=1}^{m}\varepsilon_{i}(x)\right]^{2} \\
&= & \underline{I}\sum_{i,j=1}^{m}\mathbb{E}\left(\varepsilon_{i}(x)\varepsilon_{j}(x)\right)
\end{array}$$

$$\left(u_{x}s_{x}e_{x}e_{x}\right)^{2} = \frac{1}{m^{2}}\sum_{i=1}^{m}\sigma(x)^{2} = \frac{1}{m}\sigma(x)^{2} = \frac{1}{m}\left(x\right)$$

Linear model with dropout 
$$f(x; w, u) = \frac{1}{P} w^{T}(u \circ x)$$
  $|u| = \frac{1}{P} w^{T}(u \circ x)$  with proble

$$\widehat{R}(\omega) = \mathbb{E}_{\mathcal{U}} \frac{1}{2} \| \underbrace{X \left[ \frac{1}{r} P_{\mathcal{U}} \right]}_{f(x_{i} \omega, \mathcal{U})} \omega - y \|^{2} , \quad \mathcal{D}_{\mathcal{U}} = \begin{pmatrix} \mathcal{U}_{i} & \mathcal{U}_{i} \\ \mathcal{D}_{i} & \mathcal{U}_{i} \end{pmatrix}$$

$$\mathcal{D}_{\mu} = \left( \begin{array}{c} \mu_{1} \\ \mu_{2} \end{array} \right)$$

$$\begin{split} &= \mathbb{E}_{U} \frac{1}{2} \| X_{W} - y + X_{P} \|_{P} D_{H} - I_{P} \|_{W} \|^{2} \\ &= \mathbb{E}_{U} \frac{1}{2} \| X_{W} - y \|^{2} + \mathbb{E}_{U} \frac{1}{2} \| X_{P} - I_{P} \|_{W} \|^{2} \\ &+ \mathbb{E}_{W} \| (X_{W} - y) \|^{2} + \mathbb{E}_{U} \frac{1}{2} \| (X_{P} - I_{P} - I_{$$