deterministic model 
$$\mu_{i} = \beta_{0} + \beta_{1}x_{1,i} + \beta_{2}x_{2,i}$$
 or, equivalently 
$$\boldsymbol{\mu} = \begin{pmatrix} 1 & 0 & 1 \\ 1 & 1 & 0 \\ 1 & 1 & 1 \\ \vdots & \vdots & \vdots \\ 1 & 0 & 1 \end{pmatrix} \times \begin{pmatrix} \beta_{0} \\ \beta_{1} \\ \beta_{2} \end{pmatrix}$$
$$\boldsymbol{\mu} = \mathbf{X}\boldsymbol{\beta}$$
$$\text{likelihood}$$
$$y_{i} \sim [y_{i}|\mu_{i}, \sigma^{2}]$$
$$\text{e.g.,}$$
$$y_{i} \sim \text{normal}(\mu_{i}, \sigma^{2})$$