$$\begin{aligned} y_i \sim \text{Normal}(\theta_i, \sigma^2) \\ & \downarrow \qquad \qquad \sigma^2 \sim \text{InvGamma}(\alpha_0, \beta_0) \\ \theta_i &= \beta_0 + \beta_1 x_{i1} + \beta_2 x_{i2} \\ & \downarrow \qquad \qquad \downarrow \qquad \qquad \beta_2 \sim \text{Normal}(\mu_{\beta_2}, \sigma_{\beta_2}^2) \\ & \downarrow \qquad \qquad \downarrow \qquad \qquad \beta_1 \sim \text{Normal}(\mu_{\beta_1}, \sigma_{\beta_1}^2) \\ & \beta_0 \sim \text{Normal}(\mu_{\beta_0}, \sigma_{\beta_0}^2) \end{aligned}$$

$$& \text{Alternatively...}$$

 $\theta_i = \mathbf{X}_i \boldsymbol{\beta} \longrightarrow \boldsymbol{\beta} \sim \text{MVN}(\boldsymbol{\mu}_{\beta}, \boldsymbol{\Sigma}_{\beta})$