## 总体回归模型

$$Y_i = \beta_1 + \beta_2 X_{2i} + \dots + \beta_k X_{ki} + \mu_i$$
  $i=1,2...,n$ 

k-1为解释变量的数目。习惯上,把常数项看成为虚变量的系数,该虚变量的样本观测值始终取1。于是,模型中解释变量的数目为k。

## $\beta_i$ 为回归参数(regression coefficient)。

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$$i$$
 没  $E(\mu_i|X_i)=0, i=1,2,L,n$   $g(x_i)=0, i=1,2,L,n$ 

$$\begin{array}{ccc}
\vdots & & & & & \\
\vdots & & \\$$

$$\begin{aligned}
\mathcal{E}(\lambda) &= (x \times)^{-1} \times' Y = (x' \times)^{-1} \times' (x + u) \\
&= (x' \times)^{-1} \times' \times \beta + (x' \times)^{-1} \times' U \\
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