

Multiple Lineau Regression

- Target (Dependent variable): Y - Feature (Independent Vouriable): X - 号号: -Y = F(X), Find (F) · linear relationship Find (Y,X) · 4= B+ B, X, + B, X, + ... + B, An + E) Fix y = Bof Box + Box + ··· + Box n - DLS (Ordinary least square)

=) Minimize the squared difference between Y, Y - DLS solve.

 $\Rightarrow -2x'+2x'x\beta=0$ 

 $= 2 \times (x) \hat{\beta} = 2 \times (y)$   $= (x'x) \hat{\beta} = x'y$ 

 $\widehat{\beta} = (X'X)^{-1}X'Y$ 

Ly Linique, explicit solution

好 4개21 322 (OLS 의湖 가起M)

DE & normal Distribution

1) Homoskedasticity.

3 linear relationship is correct.

4) independent.

- 1344 AT

到一期的Enolan 地名到于到州村的个空路的是

Adjusted R<sup>2</sup>.

R<sup>2</sup> = 1 -  $\left[\frac{n-1}{n-(p+1)}\right] \frac{SSE}{SST} \leq R^2$ Which top the property of the property of

女好多是处场。

\* P-value.

L+1729 Jz P-value