

# Linear Model Interpretation

$$y = \beta_0 + \beta_1x_1 + \beta_2x_2 + \dots + \beta_nx_n$$

$\beta_0$	$\beta_i$	$x_i$
Intercept	Coefficients	Features

## Coefficient Magnitude

Indicates feature importance

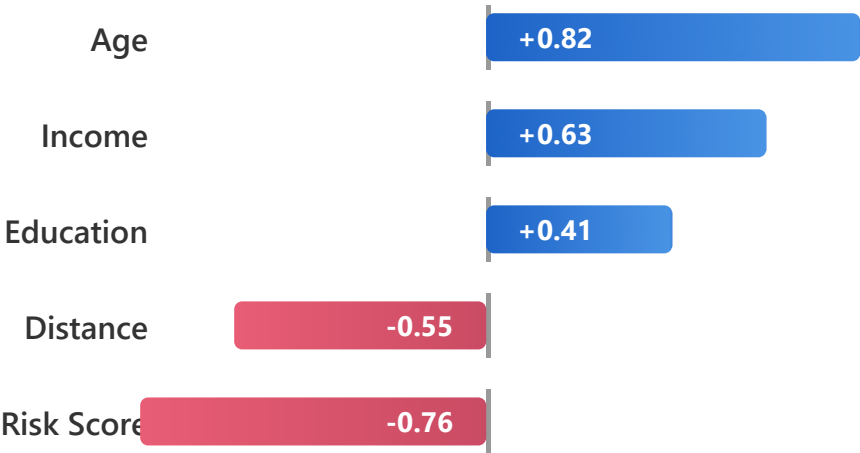
## Sign Direction

Shows positive/negative relationship

## Regularization

L1 (Lasso) for selection, L2 (Ridge) for stability

# Feature Coefficients



Positive Impact   Negative Impact