

increases.

To prevent this, use adjusted R^2.

correlated with the output feature.

Adjusted R Equared =
$$1 - (1-R^2)(N-1)$$
 $\begin{cases} P=2 & R^2=90\% & R^2=86\% \\ N-P-1 & P=3 & R^2=92\% & R^2=82\% \end{cases}$