org min \(\tilde{\infty} \left(\forall i - (Bo + B_1 \tilde{\infty}_i) \right)^2 \\ \(\begin{array}{c} \B_0, \B_1 & i = 1 \end{array} \) least Squares E ((B-Berne)2) = 1 5 (Bm-Bone)2 MSE E(T(X)) - Orne (eig) $\hat{\sigma}^2 - \sigma^2$ Set using MC estimates. Bias 56d Error $var(\bar{x}) \simeq var(\bar{x}) = \frac{1}{M-1} \sum_{i=1}^{\infty} (\hat{B}_i - E[\bar{B}])^2$ Var $S^2 = \frac{1}{n-1}$, $G^2 = \frac{1}{n}$ s vs oz $\frac{1}{M} \sum_{i=1}^{M} T_i(x) - \theta_{ene}$ $\Leftrightarrow \hat{\mathcal{E}}(T(x)) = \frac{1}{M} \sum_{i=1}^{M} T_m(x) \xrightarrow{M \to \infty} \mathcal{E}[T(x)]$ Bias) Bias (B): $\frac{1}{M}\sum_{m=1}^{\infty}\hat{B}_{m}-B_{tre}=\hat{B}-B_{tre}$ Performance Indicators 2) $var(\hat{B}): \frac{1}{M-1}\sum_{m=1}^{M} [\hat{B}_m - \hat{B}]^2 = \hat{SE}(\hat{B})^2$ $= \hat{SE}(\hat{B})^2$ $= \sum_{m=1}^{M} (\hat{B}_m - \hat{B})^2 = \hat{SE}(\hat{B})^2$ $= \sum_{m=1}^{M} (\hat{B}_m - \hat{B})^2$ $= \sum_{m=1}^{M} (\hat{B}_m - \hat{B})^2 = \hat{SE}(\hat{B})^2$ $= \sum_{m=1}^{M} (\hat{B}_m - \hat{B})^2 = \hat{SE}(\hat{B})^2$ $= \sum_{m=1}^{M} (\hat{B}_m - \hat{B})^2$ $= \sum_{m=1}^{M} ($ 3) mSE (B): E [(B-Bene)2] = 1 [Bm - Bone)2 = mSE(B) -> RMSE = JMSE Mc estimate - actual

Confidence	Quantile based.	
Interals.	Naive	$\left[\left\{ \hat{\Theta} \right\}_{.025}, \left\{ \hat{\Theta} \right\}_{.975} \right]$