K-fold Cross Validation vs. LOOCV

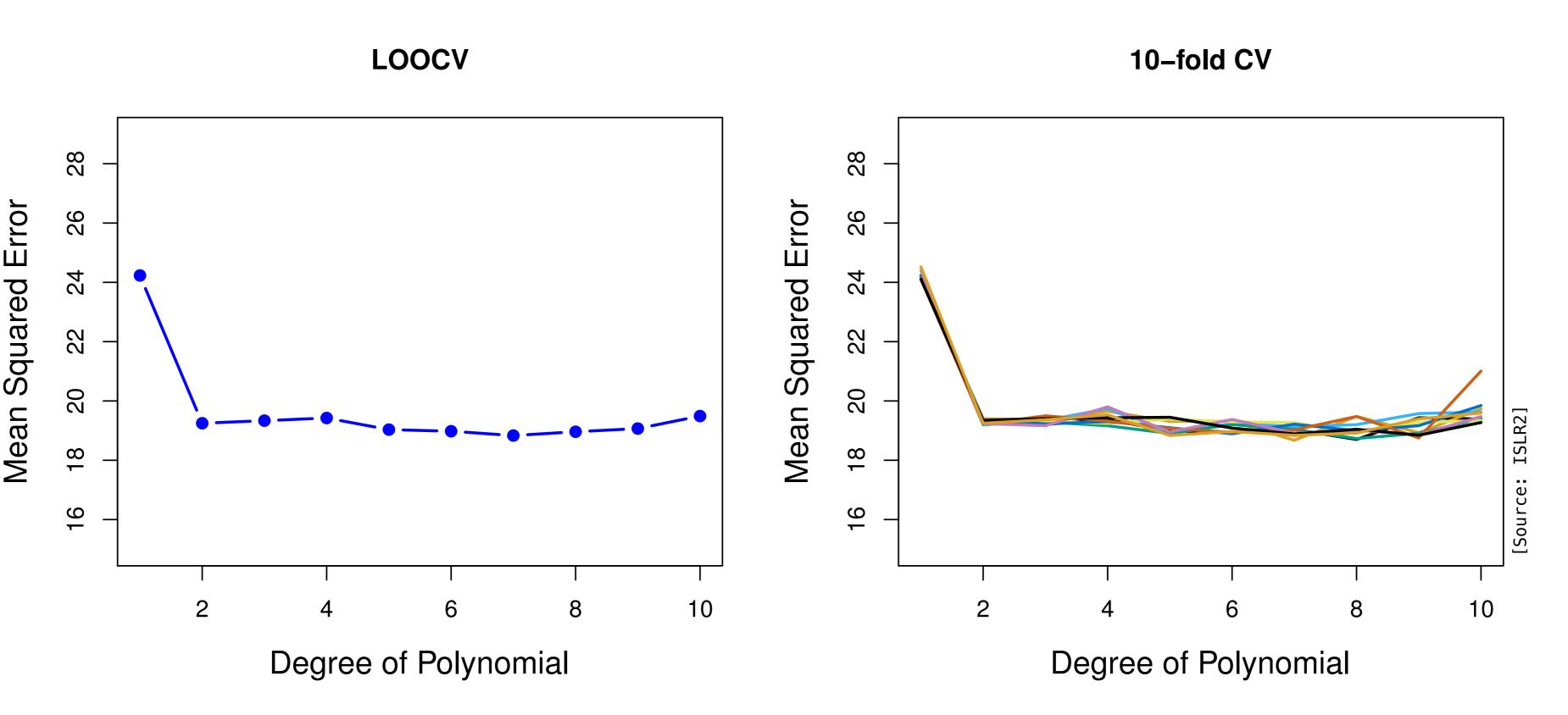
Example: Automobile Data (ISLR2)

K-fold CV depends on the chosen split

ullet K-fold CV: we train the model on less data than what is available \Longrightarrow bias in test error estimate

LOOCV: training samples highly resemble each other

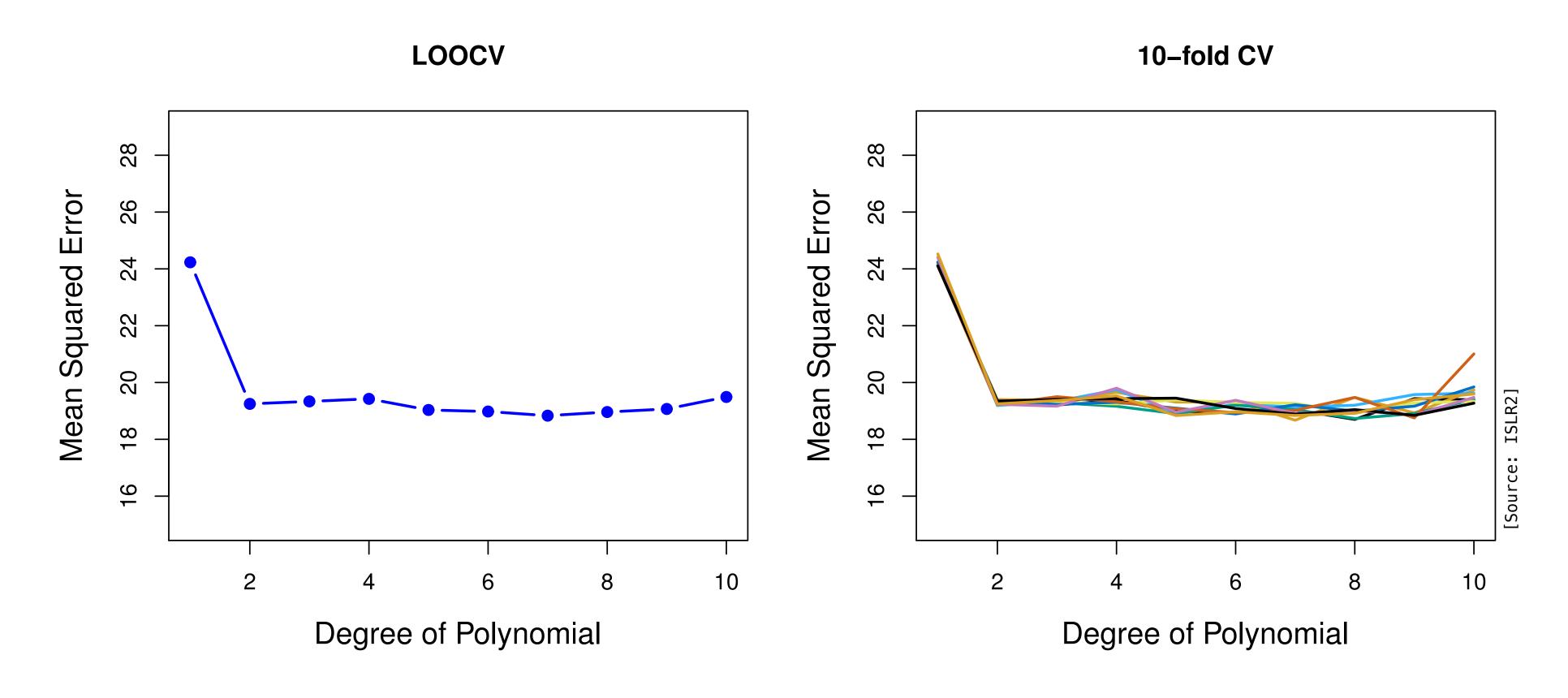
higher variance of test error estimate



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- K-fold CV: we train the model on less data than what is available \Longrightarrow bias in test error estimate
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Cross Validation on Classification Problems