

# PS9<sub>Fillmore</sub>

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## 1 Introduction

8. optimal lambda is 0.0222 in sample rmse is 0.195 out of sample rmse is 0.215

9. optimal lambda is 0.0000000001 in sample rmse is 0.195 out of sample rmse is 0.210

10. I'd say yes. Our in sample and out of sample rmse's are fairly close, with in sample rmse being slightly smaller. I'd say we're in a standard case and holding decently close to an acceptable level in the bias/variance tradeoff.