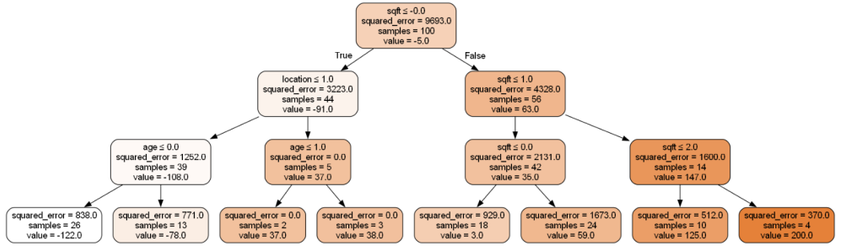
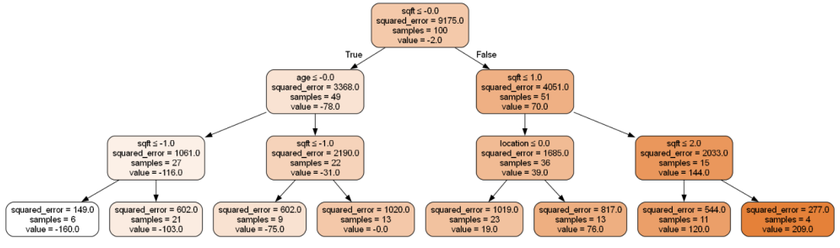
Random Forest: Multiple Diverse Trees

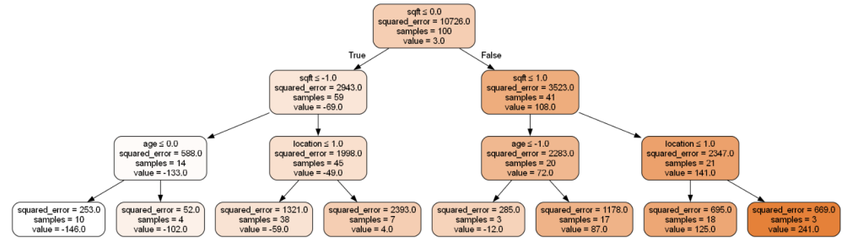
Tree 1 (Bootstrap Sample 1)



Tree 2 (Bootstrap Sample 2)



Tree 3 (Bootstrap Sample 3)



Each tree uses different features and splits due to bootstrap sampling - averaging reduces variance