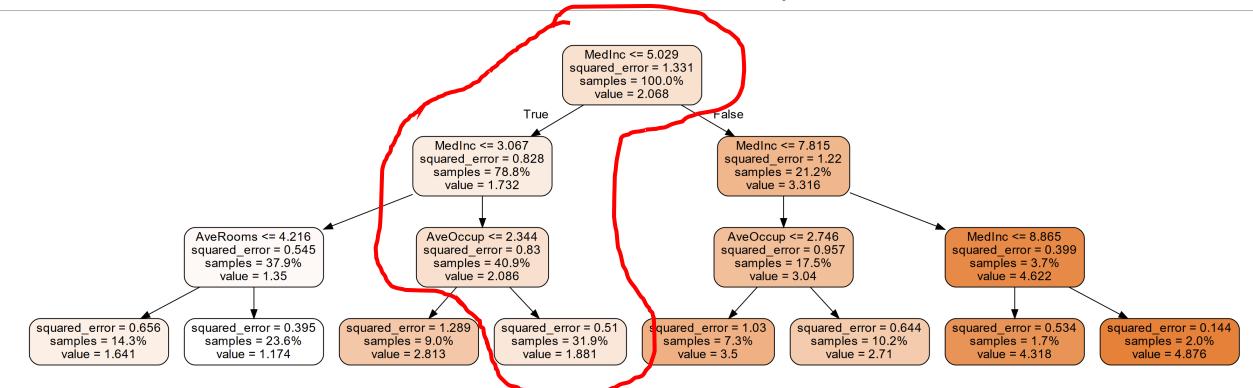
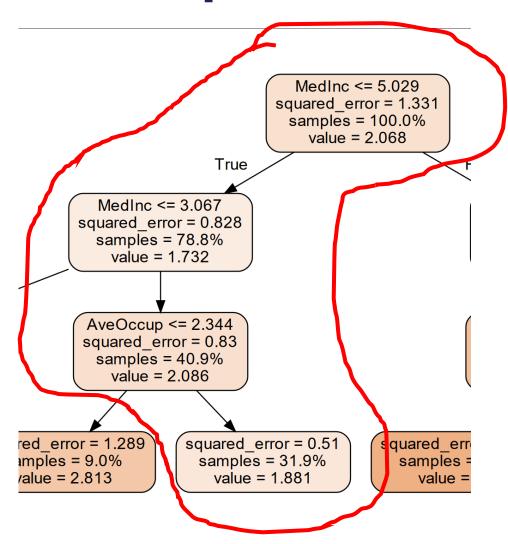




Sample 1

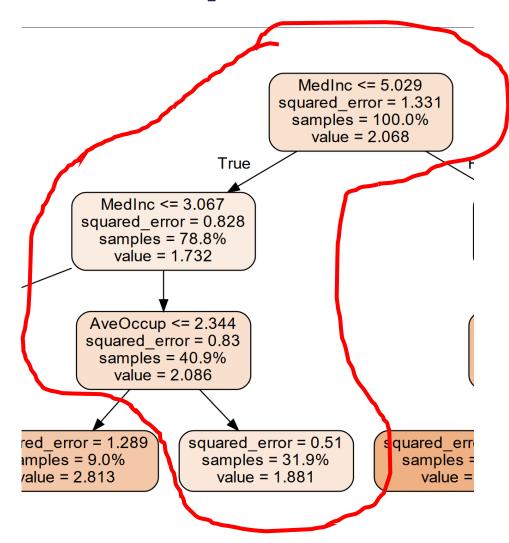






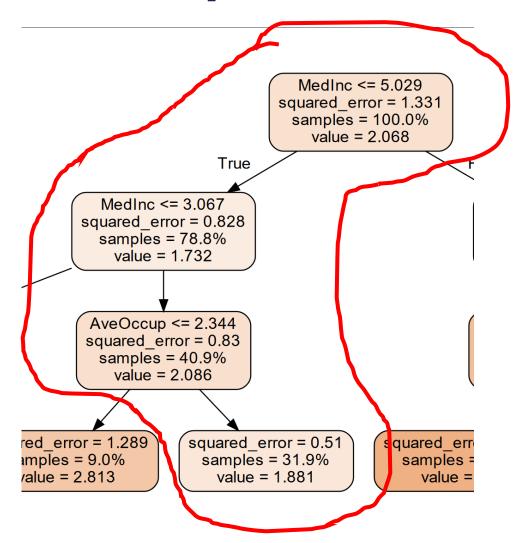
Prediction = $y_mean + \sum split contribution$





Prediction = $y_mean + \sum split contribution$ $y_mean = 2.068$

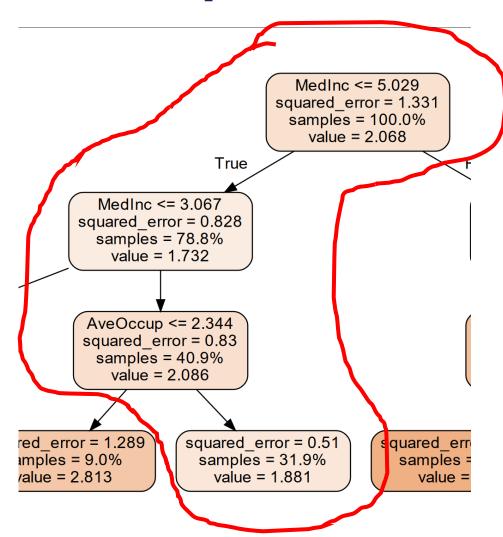
Split sum =
$$(1.732 - 2.068) + (2.086 - 1.732) + (1.881 - 2.086)$$



Prediction = $y_mean + \sum split contribution$ $y_mean = 2.068$

Split sum =
$$-0.336 + 0.354 - 0.205 = -0.187$$



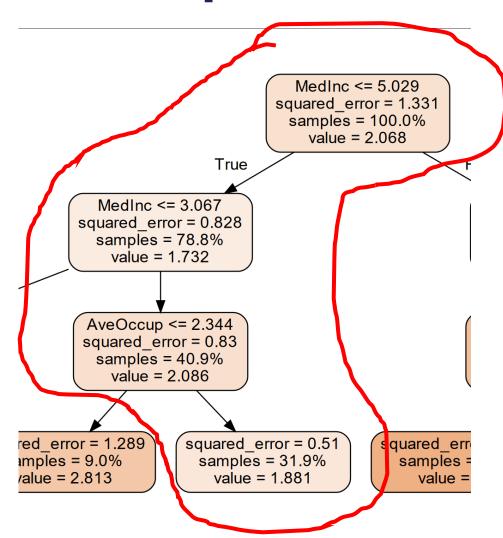


Prediction = $y_mean + \sum split contribution$

Prediction = y_mean + split sum

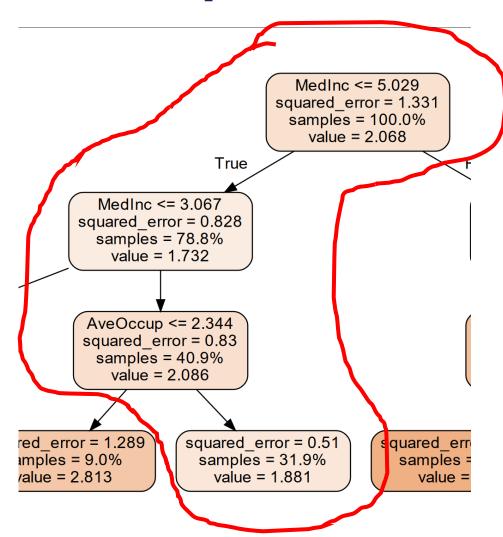
prediction = 2.068 - 0.187 = 1.881





Prediction = $y_mean + \sum feature contribution$



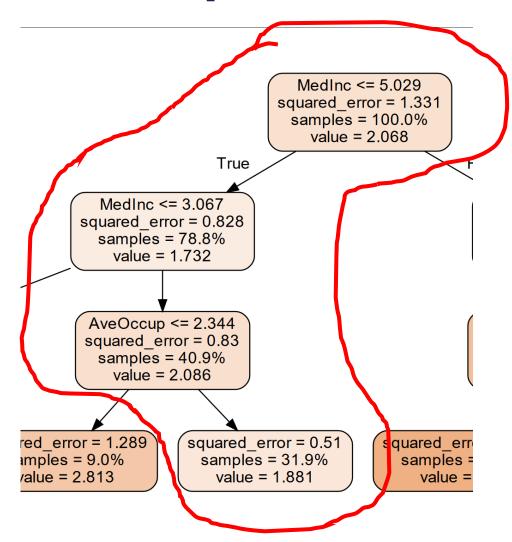


Prediction = $y_mean + \sum feature contribution$

Split sum =
$$(1.732 - 2.068) + MedInc$$

 $(2.086 - 1.732) + MedInc$
 $(1.881 - 2.086)$ AveOccup





Prediction = $y_mean + \sum feature contribution$

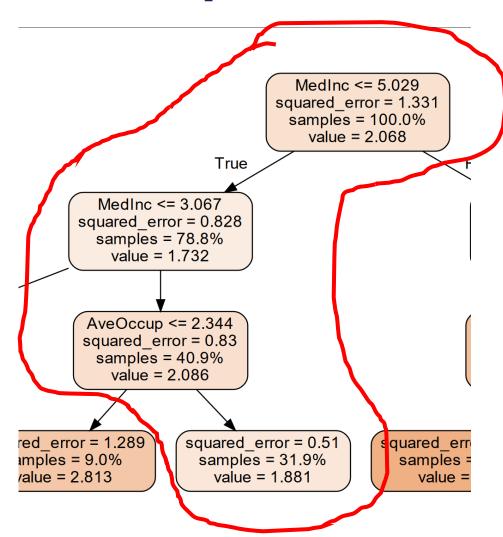
Split sum =
$$(1.732 - 2.068) + MedInc$$

 $(2.086 - 1.732) + MedInc$

MedInc =
$$(1.732 - 2.068) + (2.086 - 1.732) +$$

AveOccup =
$$(1.881 - 2.086)$$

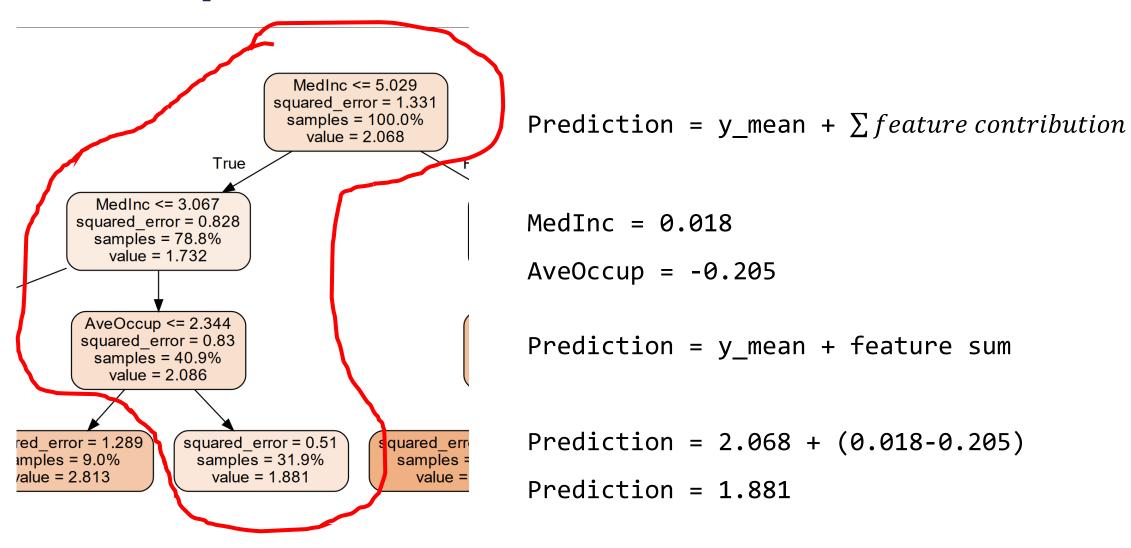




Prediction = $y_mean + \sum feature contribution$

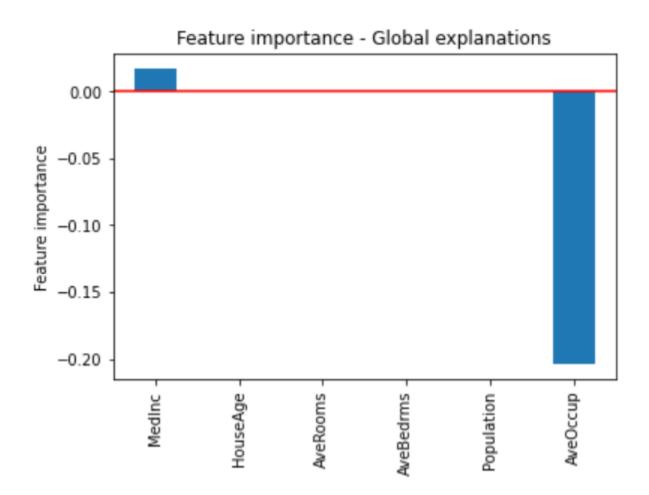
MedInc = 0.018

AveOccup = -0.205





Feature importance



 The change in value respect to the baseline induced by each feature.



THANK YOU

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