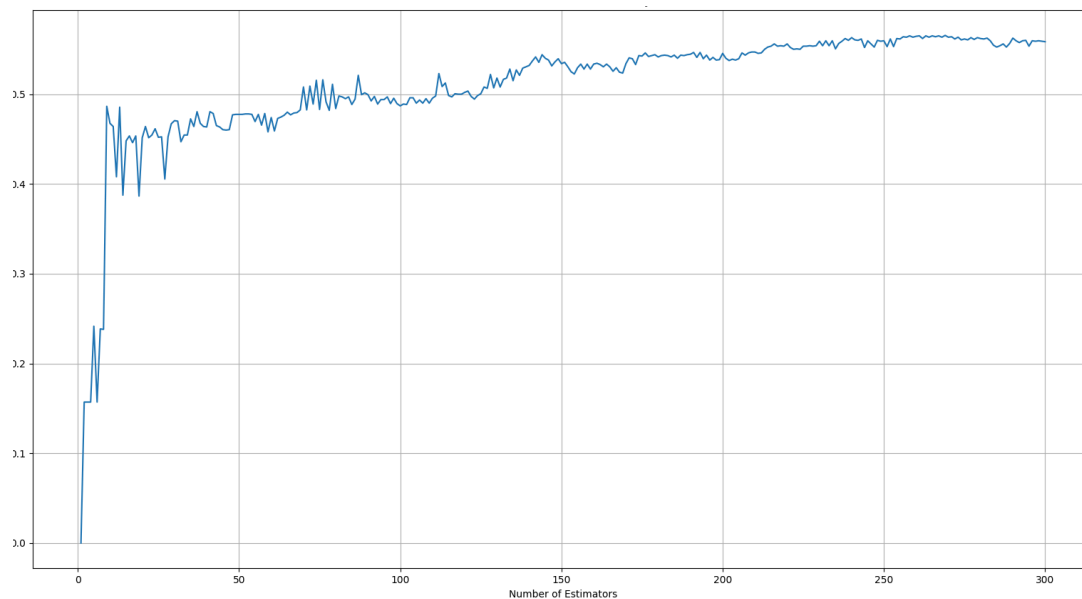
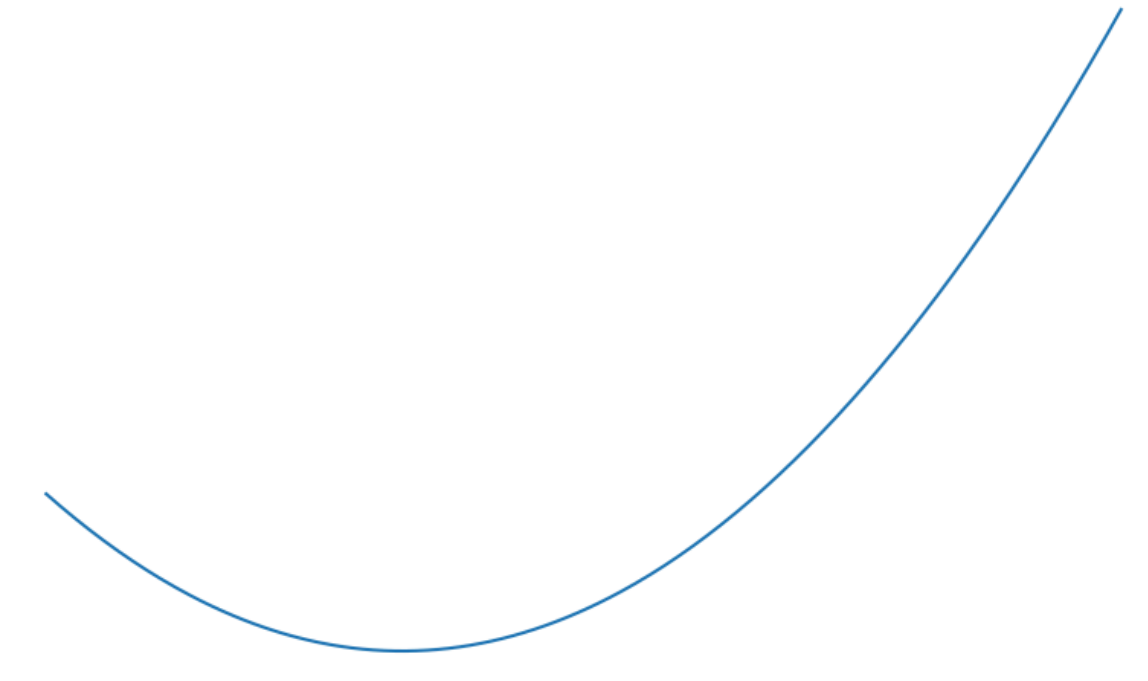


SML Assignment-4

Brief Description

1. Import the data and split it into training, validation and test groups. Apply PCA on the Xes for each, Train decision trees at mdepth=1 (but before, ensure that $y=0 \Rightarrow y=-1$), Train 300 trees in series, and give greater weight to underrepresented groups in successive stumps, find validation accuracy each step of the way. Validation accuracy comes to around 56% by the end, and testing accuracy is something around 98%.





2. Import the data and split it into training, validation and test groups. Apply PCA on the Xes for each, Train decision trees at mdepth=1, this time use gradient descent since this time it was a regression stump, find validation mse each tep of the way, minimum at roughly 0.001 or something, rose to something b/w 1 and 2 by the end.. Test mse is something like 0.3.