



Fig. 3. These four plots show the true recidivism probability versus guessed recidivism probability for each of the regression techniques. The top two regression algorithms make predictions based only on local data while the bottom two algorithms are global fitting techniques. The left vertical table beneath each figure displays the percentiles of absolute errors when predicting the probability of recidivism with that algorithm. The right table beneath each figure shows the median error in recidivism likelihood for those predictions which were over-estimated (false positives) broken down by race. Notice that without additional constraints, the neural network produces predictions outside of the range [0,1].