Random forest results on training data

Call:

randomForest(formula = fact\_target ~ ., data = samp\_train)

Type of random forest: classification

Number of trees: 500

No. of variables tried at each split: 3

OOB estimate of error rate: 30.45%

Confusion matrix:

0 1 class.error

0 239 183 0.4336493

1 116 444 0.2071429

Logistic Model on Training set

Call:

glm(formula = target\_train ~ ., family = binomial(link = "logit"),

data = final\_train)

Deviance Residuals:

Min 1Q Median 3Q Max

-2.2080 -1.1068 0.6927 0.9585 2.0647

Coefficients:

Estimate Std. Error Z value Pr(>|z|)

(Intercept) 1.31070 0.31840 4.117 3.85e-05 \*\*\*

Wife\_age -0.06489 0.01148 -5.651 1.59e-08 \*\*\*

Number\_of\_children\_ever\_born 0.33933 0.04252 7.980 1.46e-15 \*\*\*

Wife\_education 0.98432 0.18675 5.271 1.36e-07 \*\*\*

Husband\_education 0.01711 0.29559 0.058 0.9538

Wife\_religion 0.72118 0.48363 1.491 0.1359

Wife\_working 0.74156 0.66323 1.118 0.2635

Husband\_occupation 0.17748 0.51429 0.345 0.7300

Standard\_of\_living\_index 0.66348 0.25880 2.564 0.0104 \*

Media\_exposure 0.53142 0.24263 2.190 0.0285 \*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 1341.9 on 981 degrees of freedom

Residual deviance: 1188.6 on 972 degrees of freedom

AIC: 1208.6

Number of Fisher Scoring iterations: 4