Gradient Boosting Classifier (the models are all Classification)

-Features: x variables: mother’s occupation and age at enrollment, y variable: Target\_Graduate

-Metrics for Classification testing

0 Precision 0.68 Recall 0.52 F1Score 0.59

1 Precision 0.61 Recall 0.75 F1Score 0.67

-Metrics for Classification training

0 Precision 0.64 Recall 0.44 F1Score 0.52

1 Precision 0.57 Recall 0.75 F1Score 0.65

-Features: x variables: mother’s occupation and educational special needs, y variable: Target

Dropout

-Metrics for Classification testing

0 Precision 0.70 Recall 0.98 F1Score 0.81

1 Precision 0.71 Recall 0.12 F1Score 0.21

-Metrics for Classification training

0 Precision 0.71 Recall 0.97 F1Score 0.82

1 Precision 0.64 Recall 0.11 F1Score 0.19

-Features: x variables: mother’s occupation and mother’s qualification, y variable: Target\_Enrolled

-Metrics for Classification testing

0 Precision 0.83 Recall 1.00 F1Score 0.90

1 Precision 0.69 Recall 0.04 F1Score 0.08

-Metrics for Classification training

0 Precision 0.82 Recall 0.99 F1Score 0.89

1 Precision 0.41 Recall 0.04 F1Score 0.08