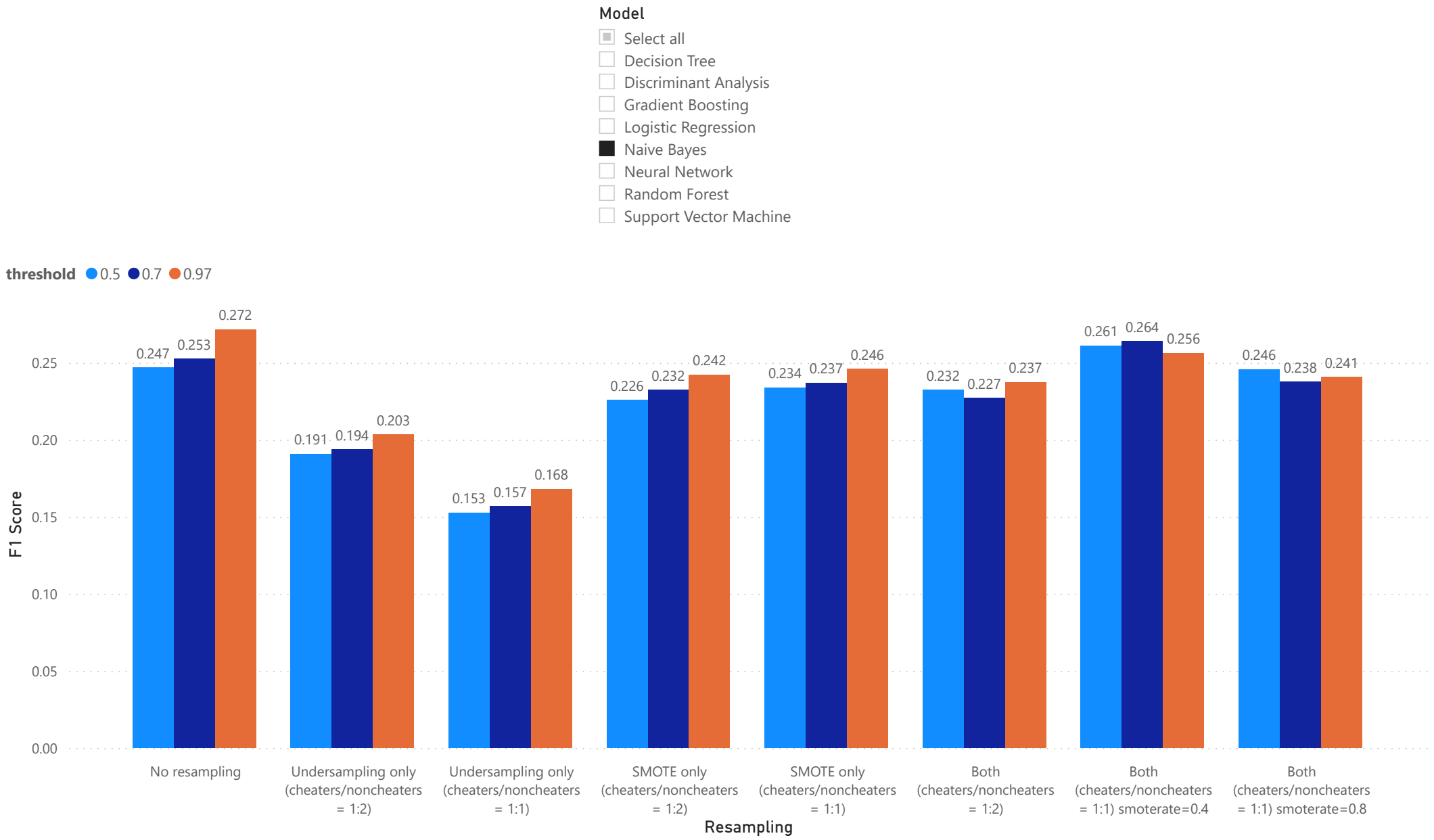
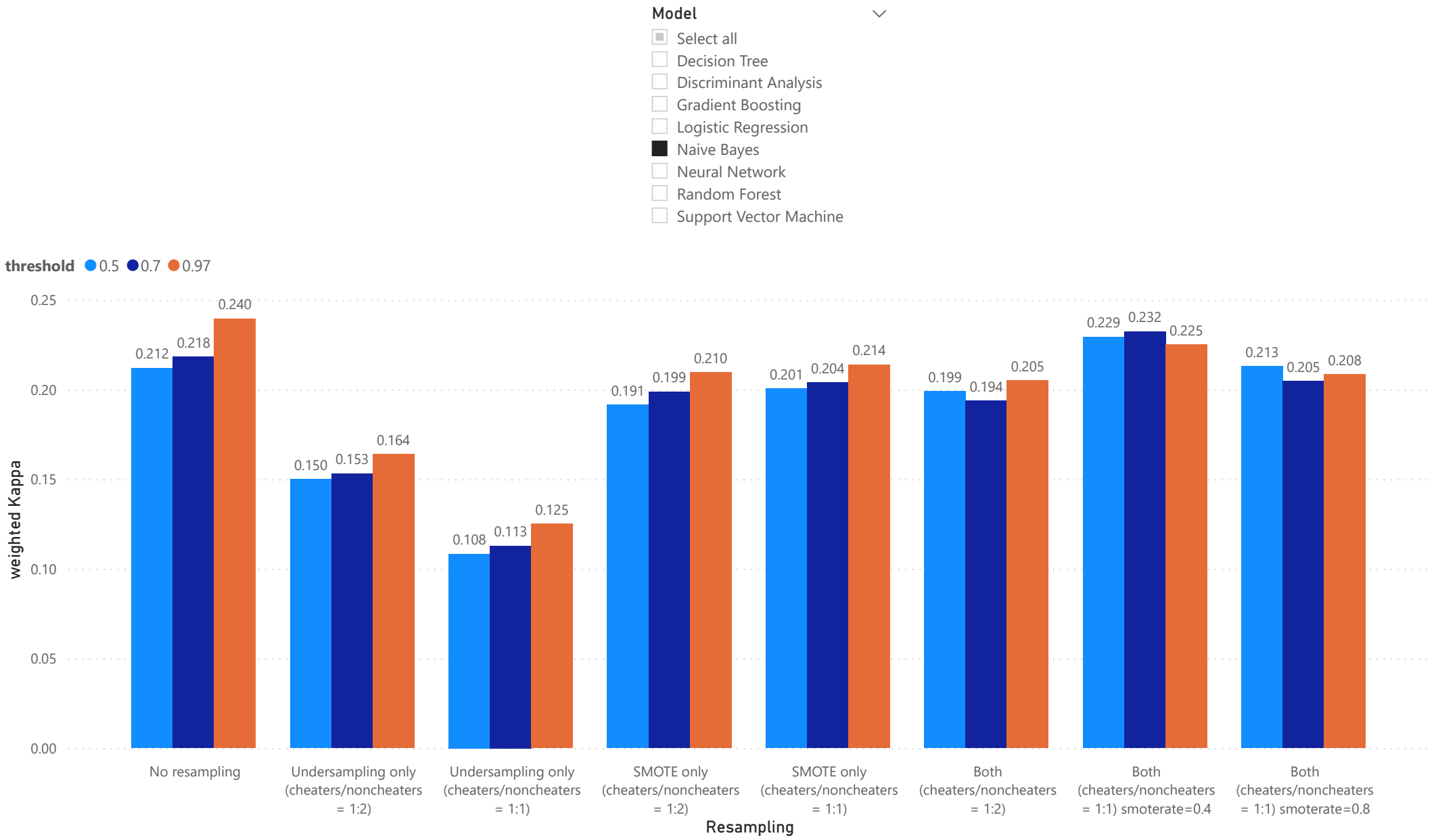
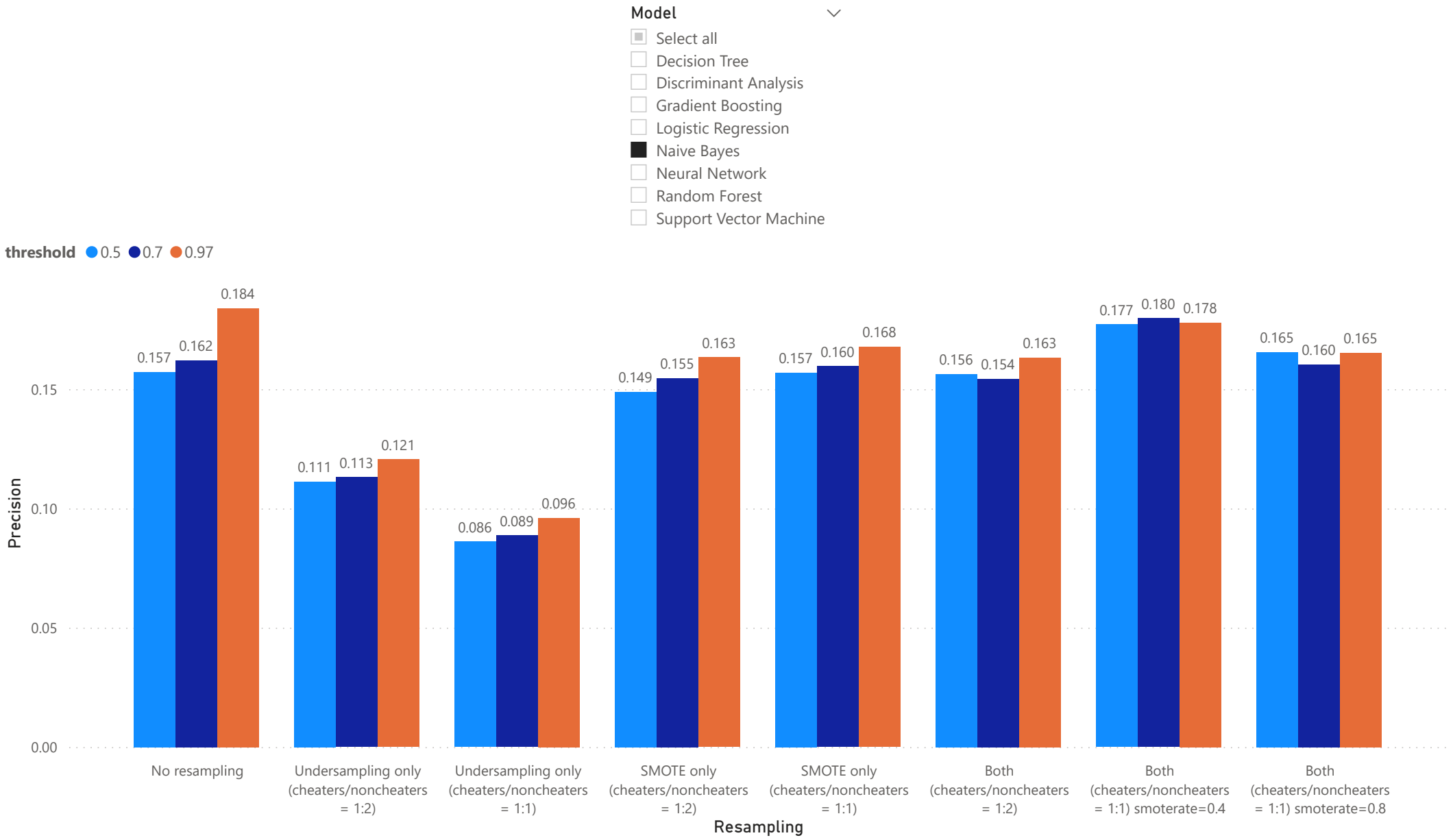
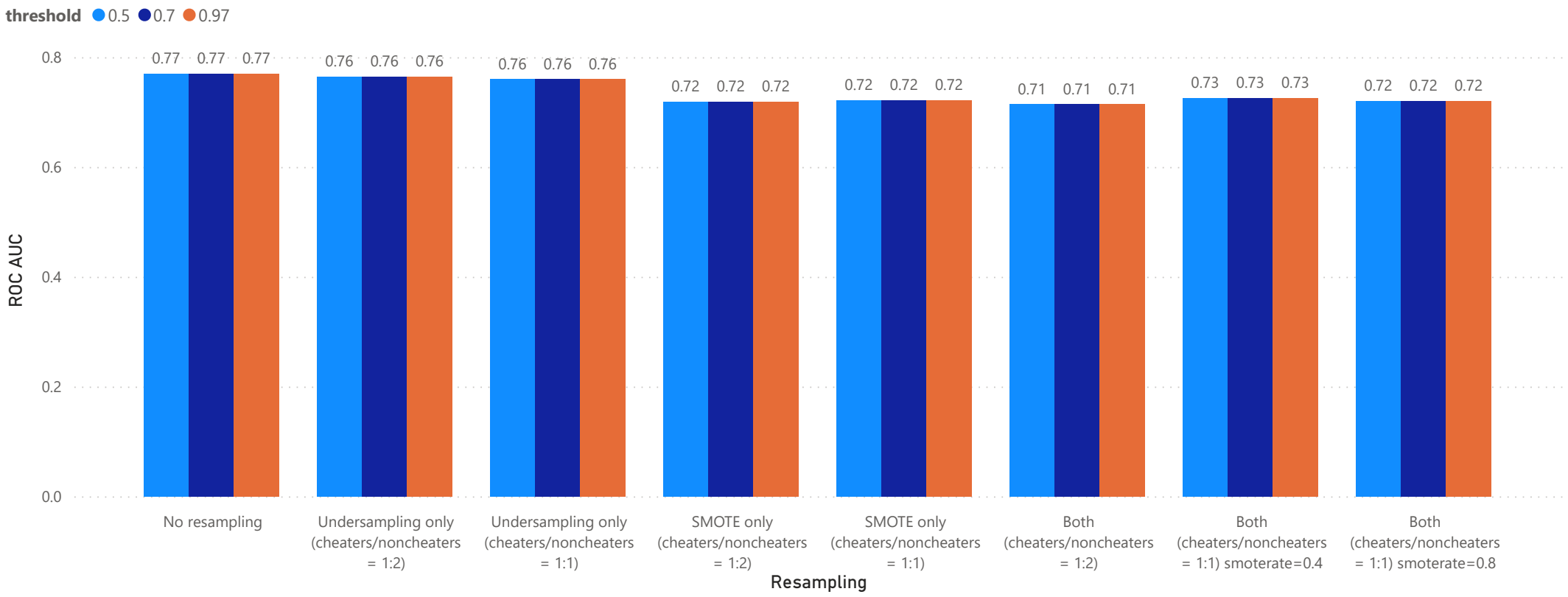

Model
Select all
Decision Tree
Discriminant Analysis
Gradient Boosting
Logistic Regression
Naive Bayes
Neural Network
Random Forest
Support Vector Machine
threshold 0.5 0.7 0.97
F1 Score
0.00
0.05
0.10
0.15
0.20
0.25
0.247 0.253 0.272
0.191 0.194 0.203
0.153 0.157 0.168
0.226 0.232 0.242
0.234 0.237 0.246
0.232 0.227 0.237
0.261 0.264 0.256
0.246 0.238 0.241
No resampling
Undersampling only (cheaters/noncheaters = 1:2)
Undersampling only (cheaters/noncheaters = 1:1)
SMOTE only (cheaters/noncheaters = 1:2)
SMOTE only (cheaters/noncheaters = 1:1)
Both (cheaters/noncheaters = 1:2)
Both (cheaters/noncheaters = 1:1) smoterate=0.4
Both (cheaters/noncheaters = 1:1) smoterate=0.8
Resampling

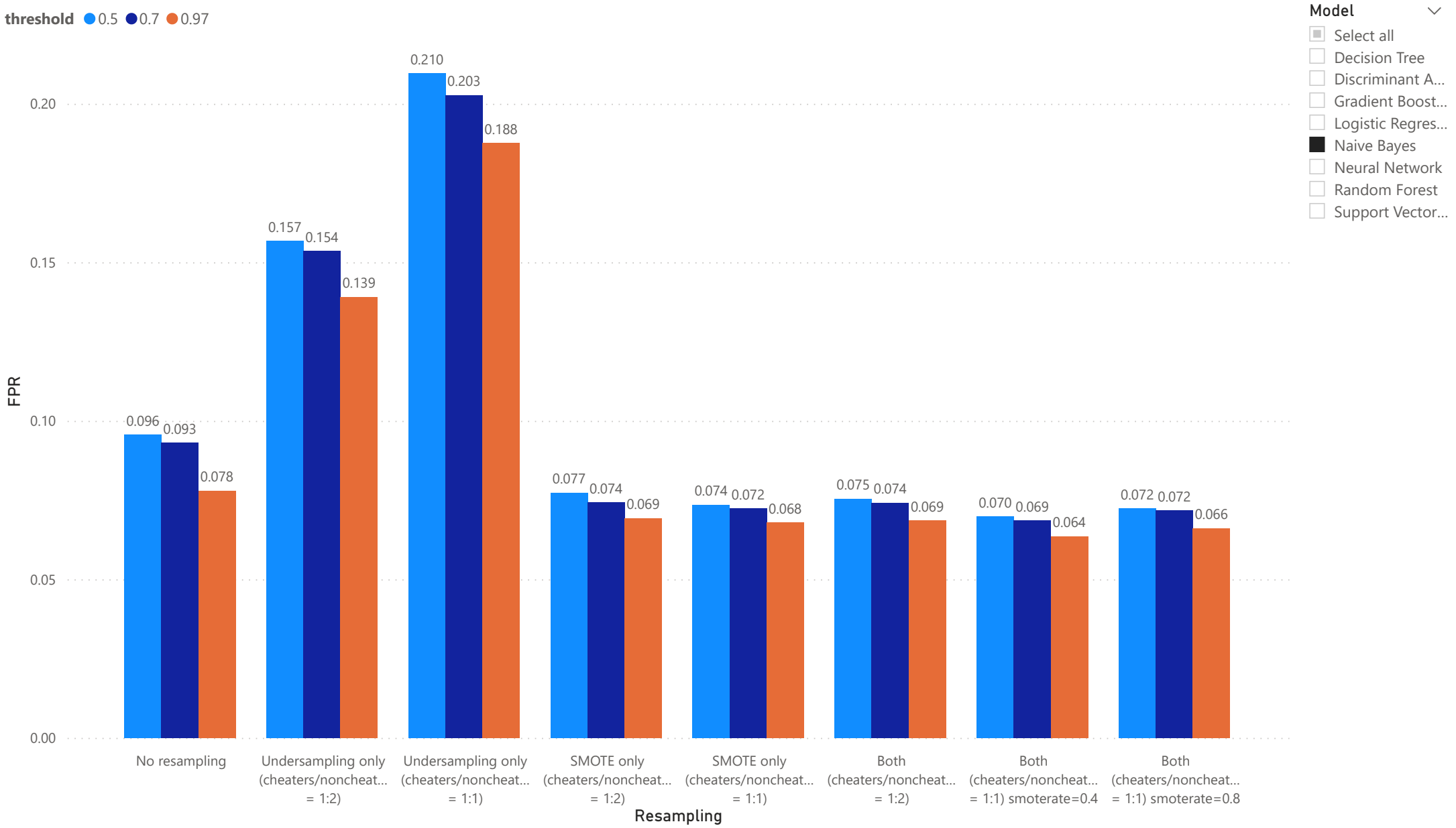

Model
Select all
Decision Tree
Discriminant Analysis
Gradient Boosting
Logistic Regression
Naive Bayes
Neural Network
Random Forest
Support Vector Machine
threshold 0.5 0.7 0.97
weighted Kappa
0.25
0.20
0.15
0.10
0.05
0.00
0.212 0.218 0.240
0.150 0.153 0.164
0.108 0.113 0.125
0.191 0.199 0.210
0.201 0.204 0.214
0.199 0.194 0.205
0.229 0.232 0.225
0.213 0.205 0.208
No resampling
Undersampling only (cheaters/noncheaters = 1:2)
Undersampling only (cheaters/noncheaters = 1:1)
SMOTE only (cheaters/noncheaters = 1:2)
SMOTE only (cheaters/noncheaters = 1:1)
Both (cheaters/noncheaters = 1:2)
Both (cheaters/noncheaters = 1:1) smoterate=0.4
Both (cheaters/noncheaters = 1:1) smoterate=0.8
Resampling

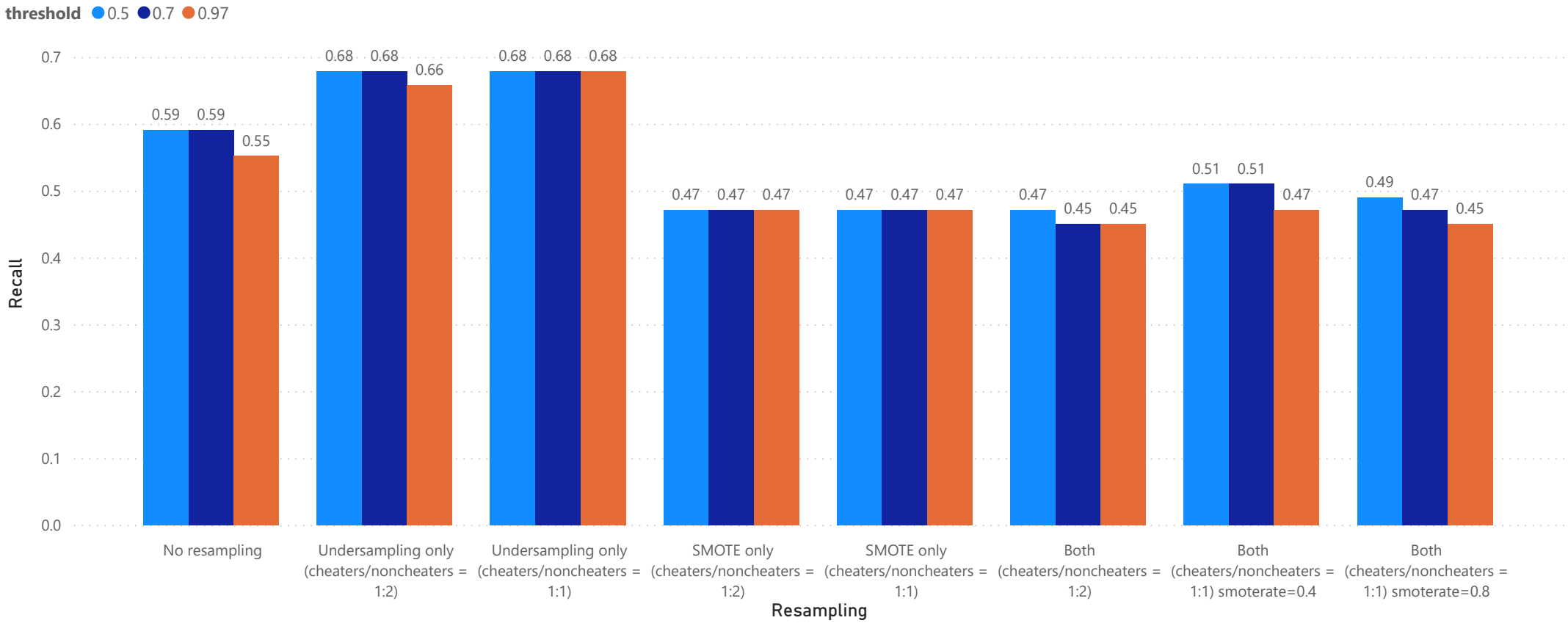

Model
Select all
Decision Tree
Discriminant Analysis
Gradient Boosting
Logistic Regression
Naive Bayes
Neural Network
Random Forest
Support Vector Machine
threshold 0.5 0.7 0.97
Precision
0.00
0.05
0.10
0.15
0.157 0.162 0.184
0.111 0.113 0.121
0.086 0.089 0.096
0.149 0.155 0.163
0.157 0.160 0.168
0.156 0.154 0.163
0.177 0.180 0.178
0.165 0.160 0.165
No resampling
Undersampling only (cheaters/noncheaters = 1:2)
Undersampling only (cheaters/noncheaters = 1:1)
SMOTE only (cheaters/noncheaters = 1:2)
SMOTE only (cheaters/noncheaters = 1:1)
Both (cheaters/noncheaters = 1:2)
Both (cheaters/noncheaters = 1:1) smoterate=0.4
Both (cheaters/noncheaters = 1:1) smoterate=0.8
Resampling

Model

- [ ] Select all
- [ ] Decision Tree
- [ ] Discriminant Analysis
- [ ] Gradient Boosting
- [ ] Logistic Regression
- [x] Naive Bayes
- [ ] Neural Network
- [ ] Random Forest
- [ ] Support Vector Machine




threshold 0.5 0.7 0.97
Model
Select all
Decision Tree
Discriminant A...
Gradient Boost...
Logistic Regres...
Naive Bayes
Neural Network
Random Forest
Support Vector...
FPR
0.20
0.15
0.10
0.05
0.00
0.096 0.093 0.078
0.157 0.154 0.139
0.210 0.203 0.188
0.077 0.074 0.069
0.074 0.072 0.068
0.075 0.074 0.069
0.070 0.069 0.064
0.072 0.072 0.066
No resampling
Undersampling only (cheaters/noncheat... = 1:2)
Undersampling only (cheaters/noncheat... = 1:1)
SMOTE only (cheaters/noncheat... = 1:2)
SMOTE only (cheaters/noncheat... = 1:1)
Both (cheaters/noncheat... = 1:2)
Both (cheaters/noncheat... = 1:1) smoterate=0.4
Both (cheaters/noncheat... = 1:1) smoterate=0.8
Resampling

Model

- Select all
- Decision Tree
- Discriminant Analysis
- Gradient Boosting
- Logistic Regression
- Naive Bayes
- Neural Network
- Random Forest
- Support Vector Machine