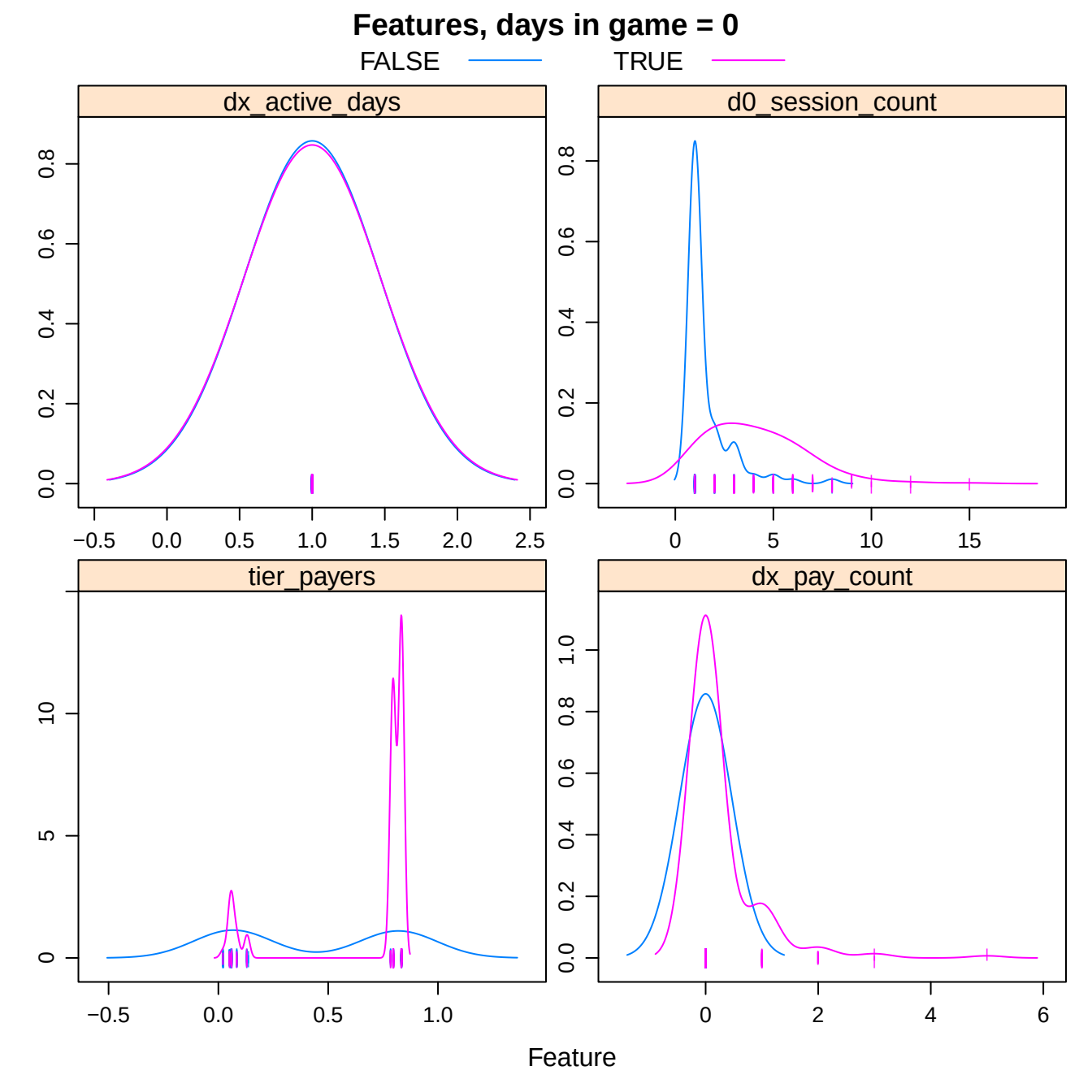
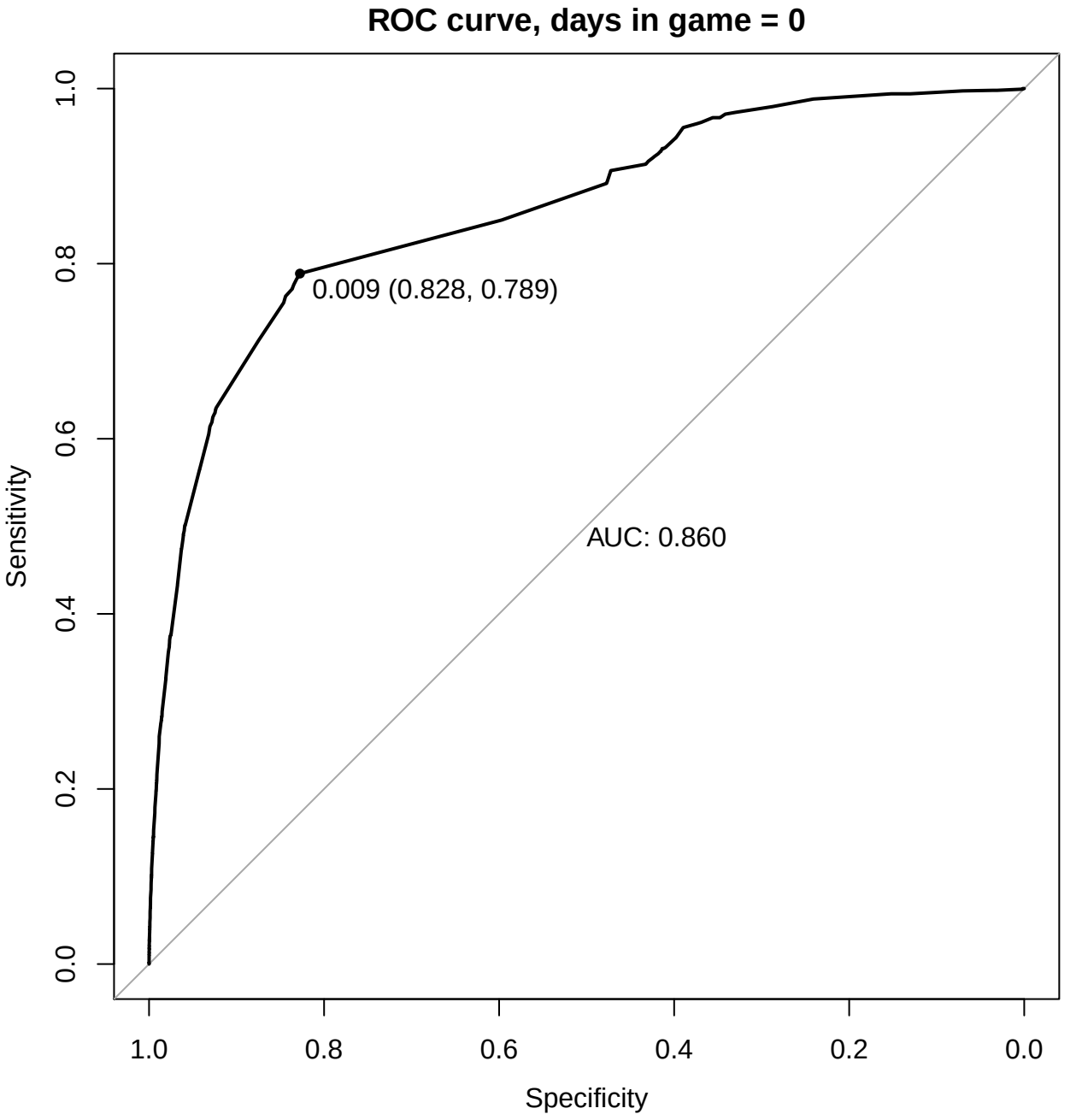
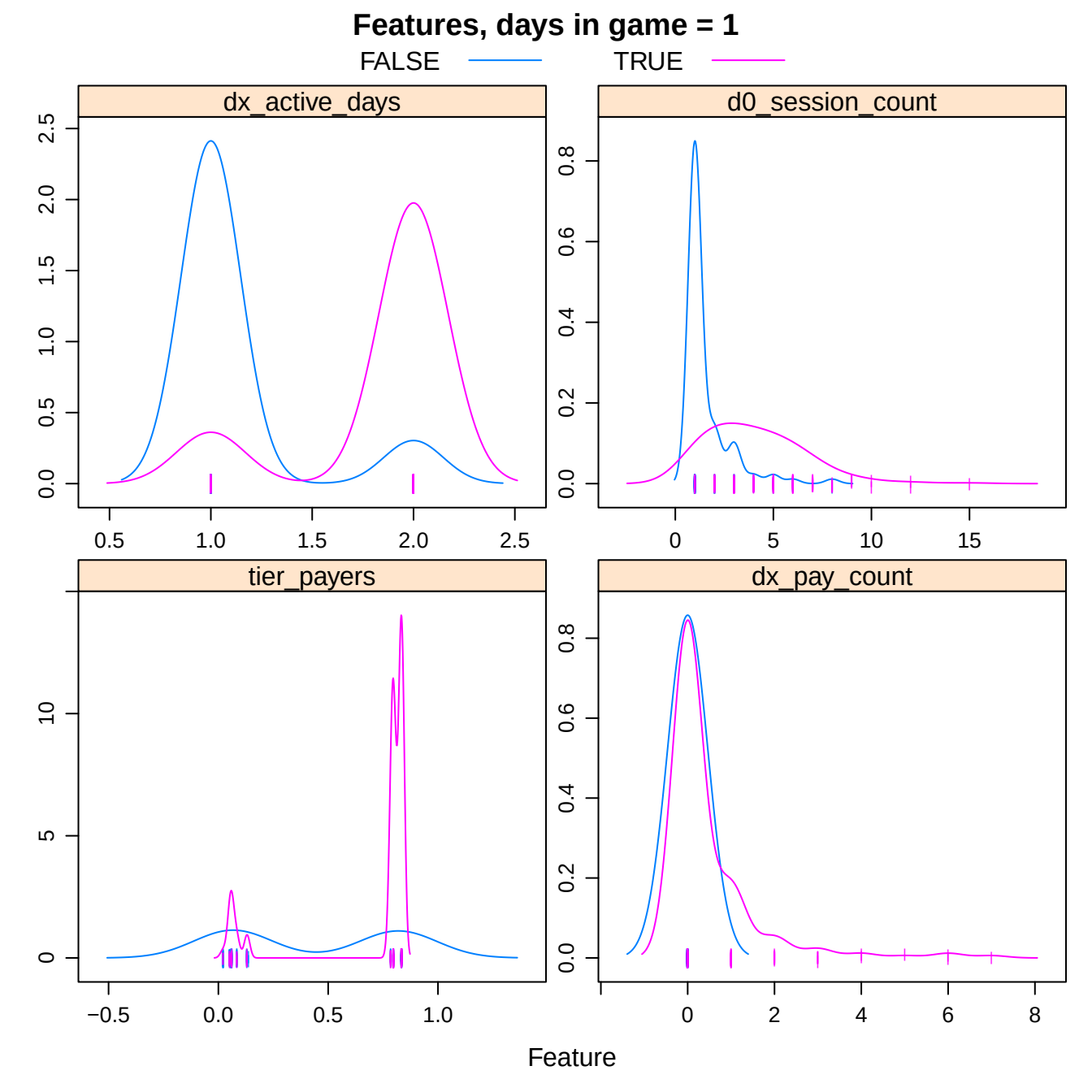
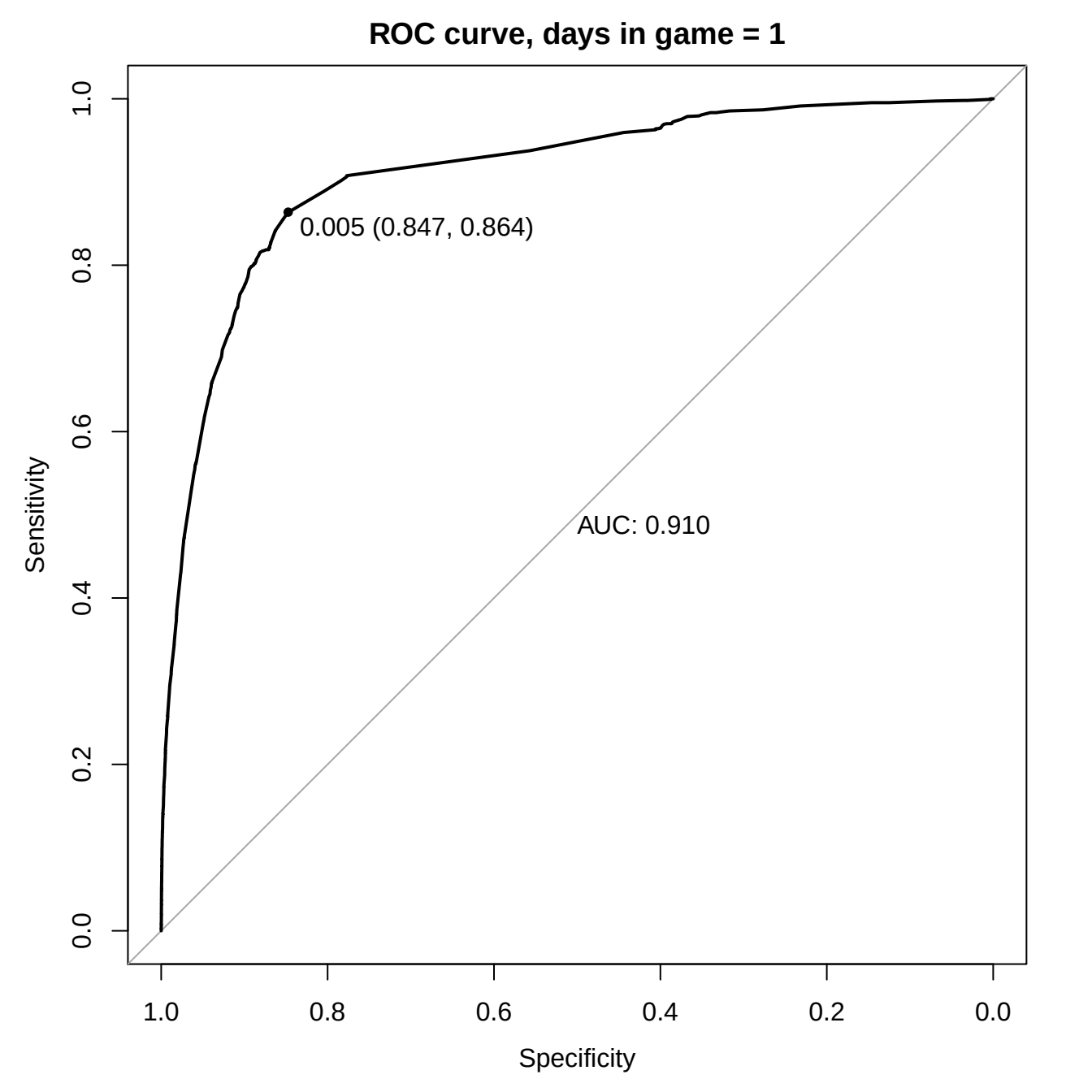

Features, days in game = 0
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

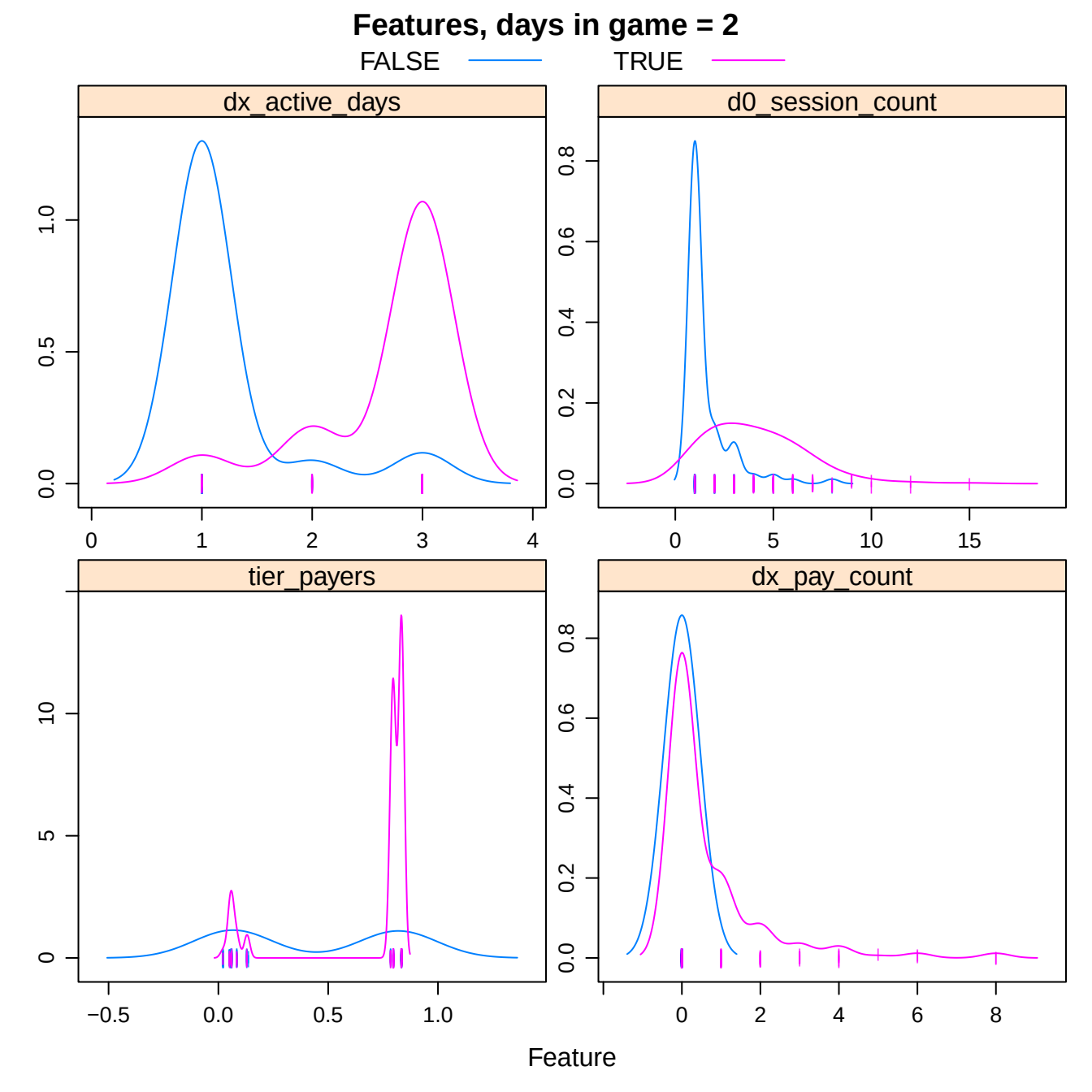
```
Call:
glm(formula = dy_payer ~ tier_payers + dx_pay_count + d0_session_count,
    family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−4.8634  −0.1250  −0.1215  −0.0697   3.6248

Coefficients:
                  Estimate Std. Error z value Pr(>|z|)
(Intercept)      −6.663498   0.037324 −178.53   <2e−16 ***
tier_payers       1.562504   0.044771   34.90   <2e−16 ***
dx_pay_count      1.567655   0.041073   38.17   <2e−16 ***
d0_session_count  0.513010   0.004803  106.82   <2e−16 ***
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 52761  on 545217  degrees of freedom
AIC: 52769

Number of Fisher Scoring iterations: 8
```


ROC curve, days in game = 0
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.009 (0.828, 0.789)
AUC: 0.860
1.0
0.8
0.6
0.4
0.2
0.0
Specificity

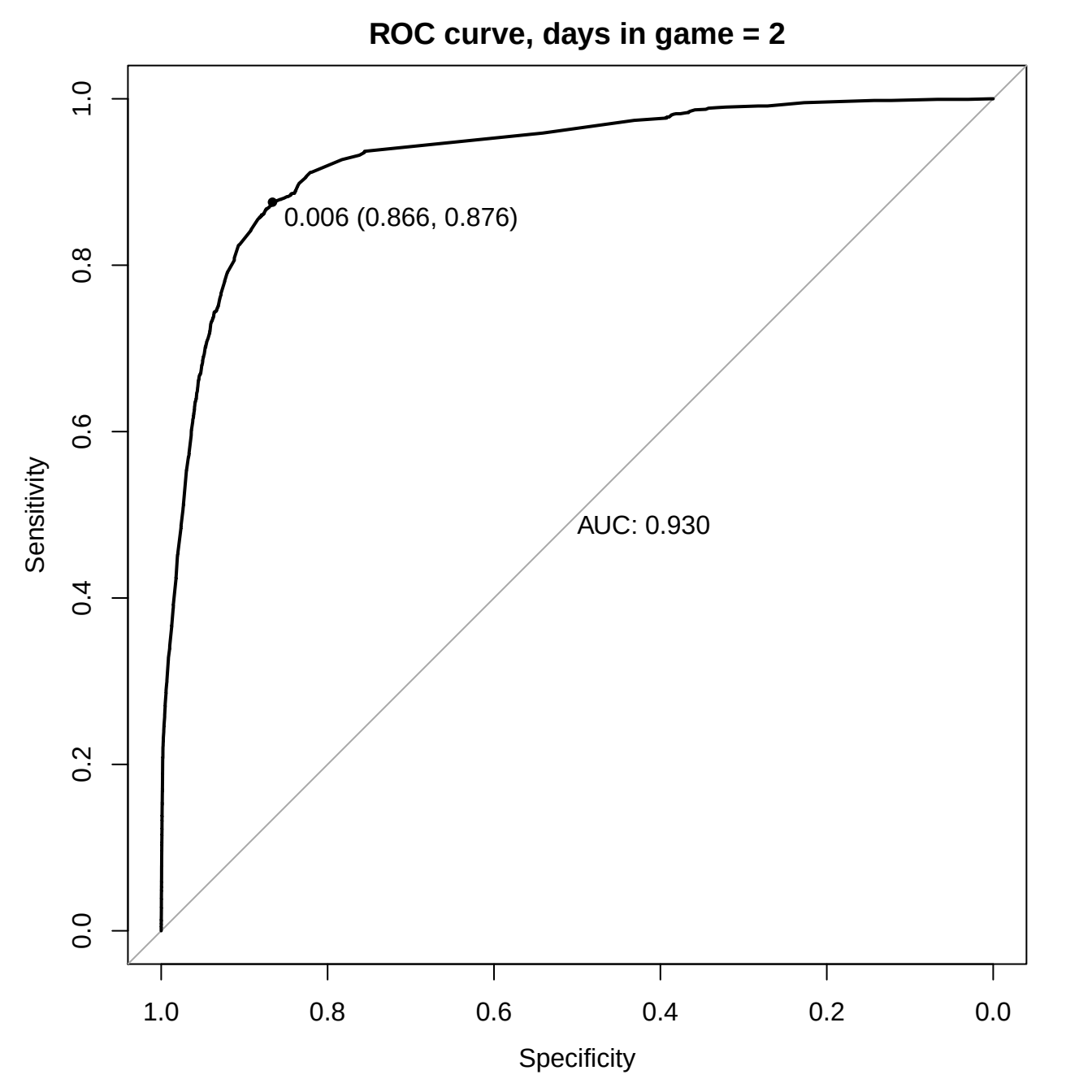

Features, days in game = 1
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

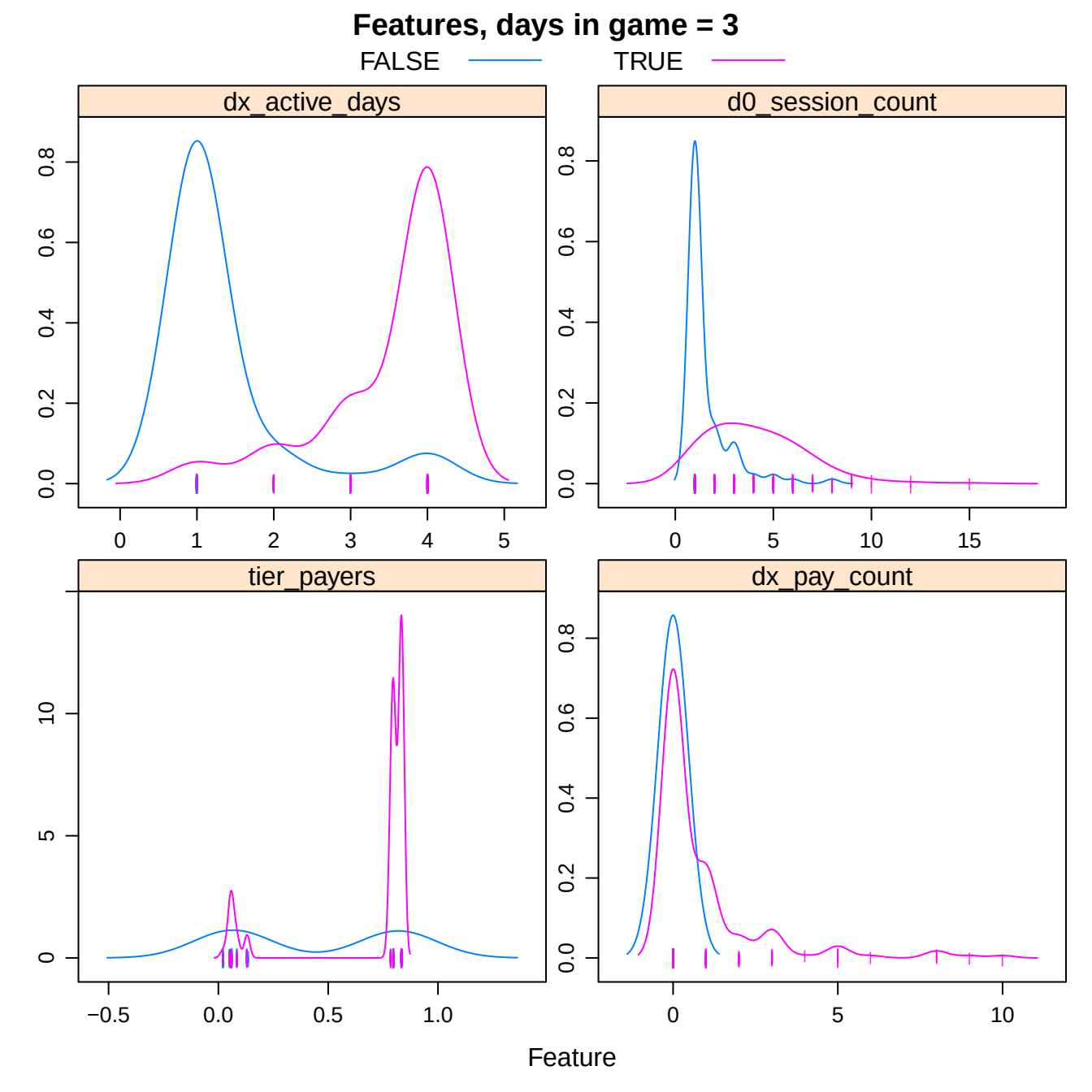
```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−5.7666  −0.0803  −0.0782  −0.0474   4.1564

Coefficients:
                  Estimate Std. Error z value Pr(>|z|)
(Intercept)      −9.743501   0.068332 −142.59   <2e−16 ***
tier_payers       1.408726   0.044831   31.42   <2e−16 ***
dx_pay_count      1.190269   0.029265   40.67   <2e−16 ***
dx_active_days    2.591737   0.037826   68.52   <2e−16 ***
d0_session_count  0.242034   0.005822   41.57   <2e−16 ***
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 46527  on 545216  degrees of freedom
AIC: 46537

Number of Fisher Scoring iterations: 8
```


ROC curve, days in game = 1
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.005 (0.847, 0.864)
AUC: 0.910
1.0
0.8
0.6
0.4
0.2
0.0
Specificity

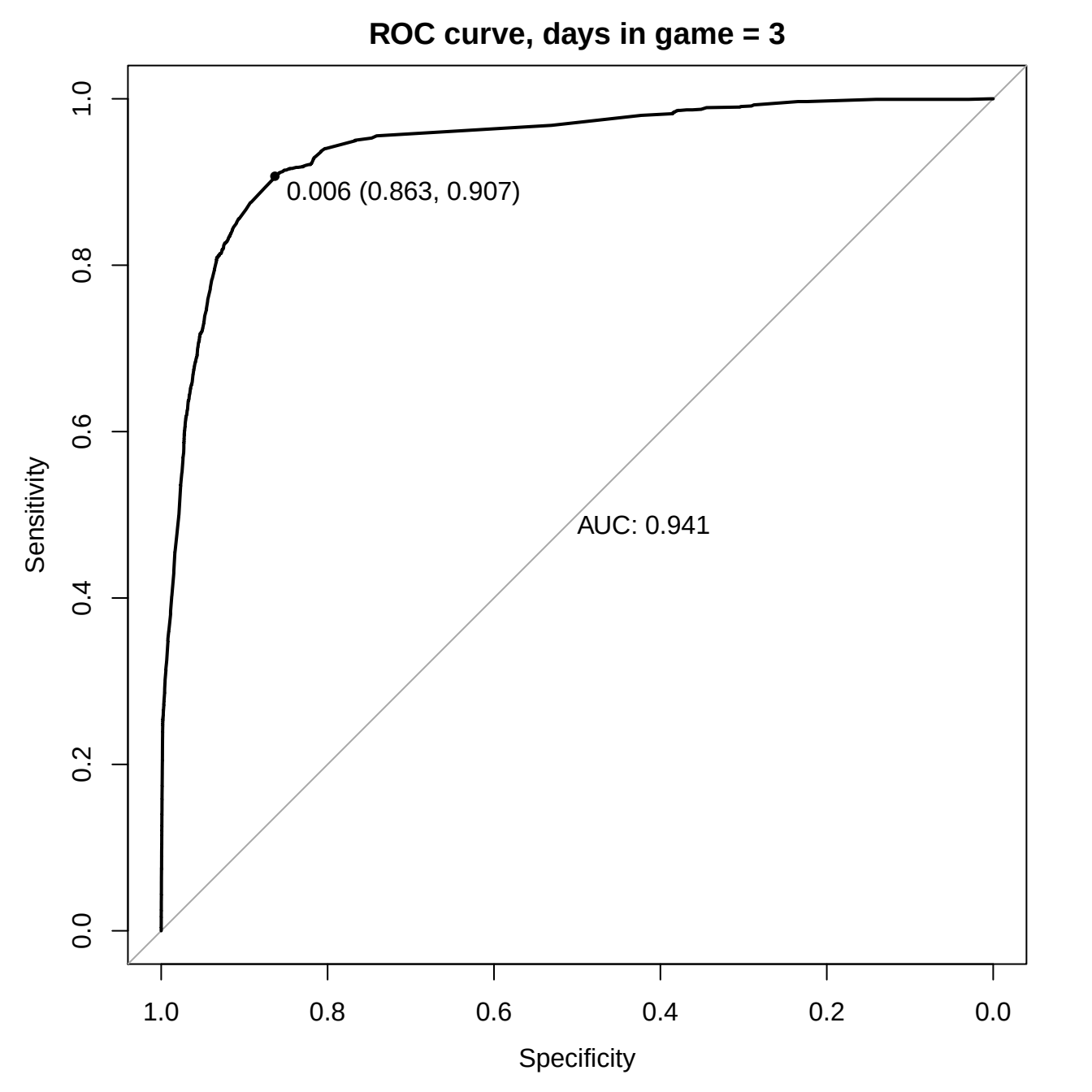

Features, days in game = 2
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

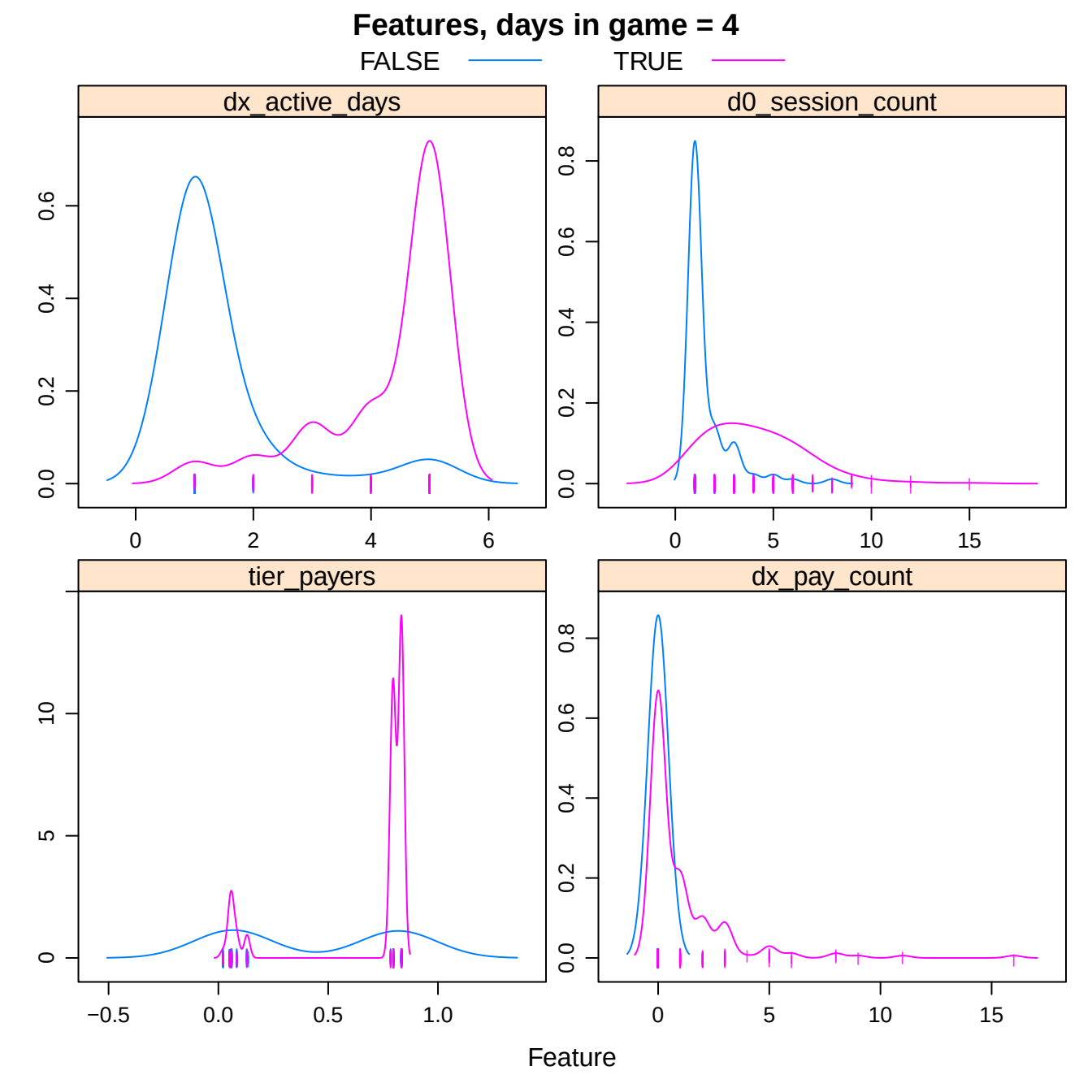
```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−5.4829  −0.0713  −0.0695  −0.0429   3.7627

Coefficients:
                  Estimate Std. Error z value Pr(>|z|)
(Intercept)      −9.035533   0.057405 −157.40   <2e−16 ***
tier_payers       1.358959   0.045430   29.91   <2e−16 ***
dx_pay_count      1.063741   0.024800   42.89   <2e−16 ***
dx_active_days    1.803064   0.021802   82.70   <2e−16 ***
d0_session_count  0.126181   0.006432   19.62   <2e−16 ***
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 43162  on 545216  degrees of freedom
AIC: 43172

Number of Fisher Scoring iterations: 9
```


ROC curve, days in game = 2
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.006 (0.866, 0.876)
AUC: 0.930
1.0
0.8
0.6
0.4
0.2
0.0
Specificity

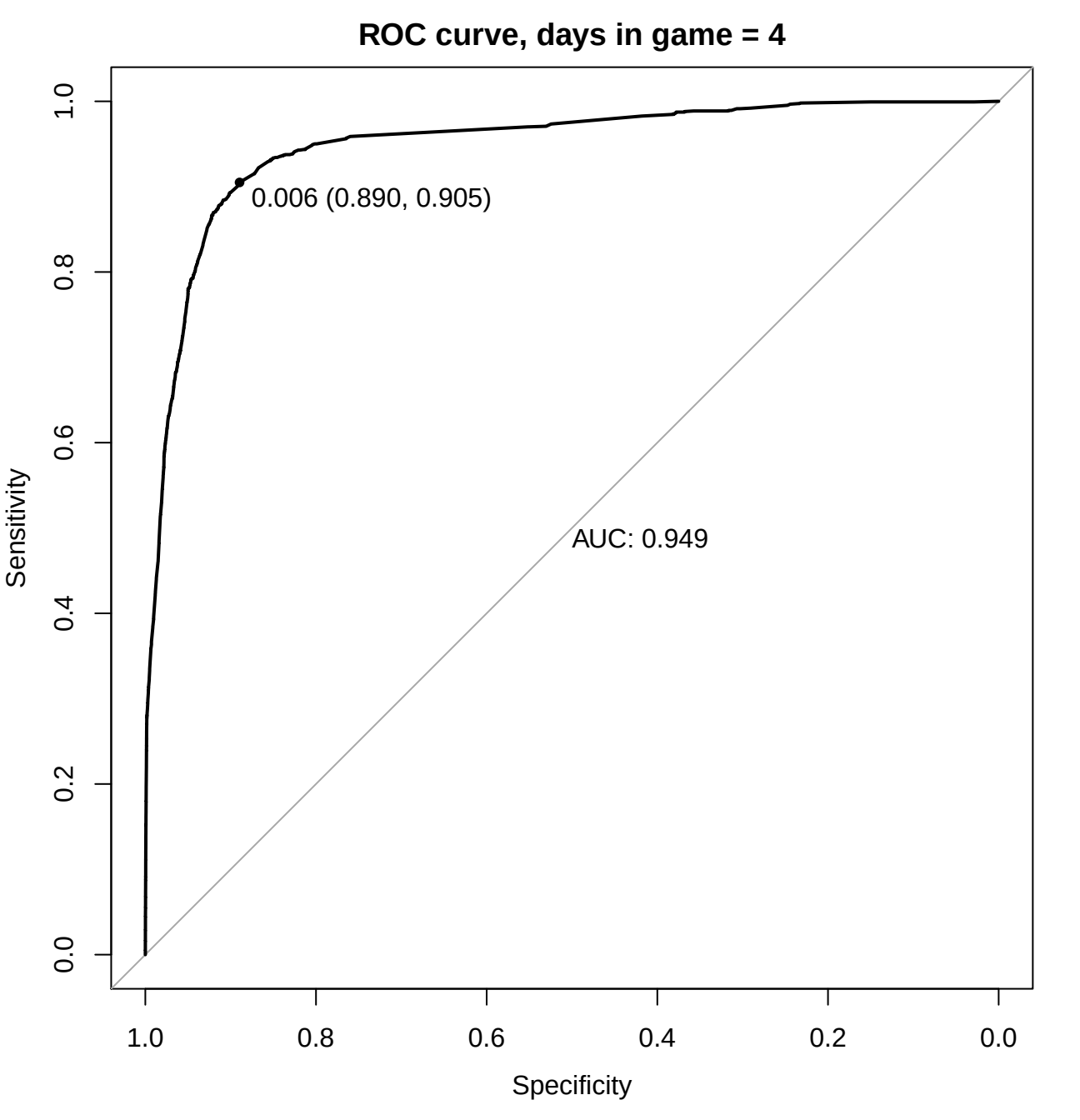

Features, days in game = 3
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

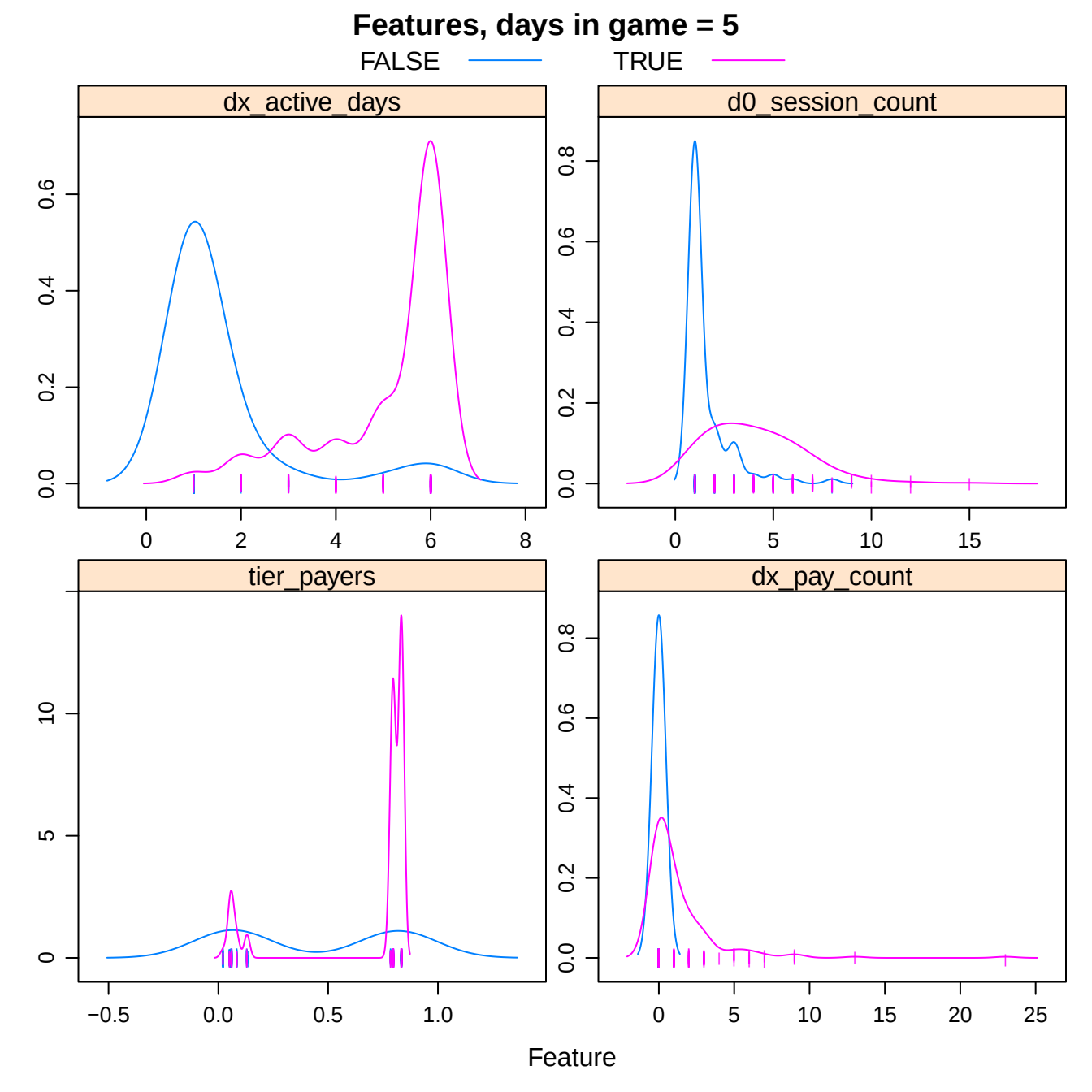
```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−5.4320  −0.0675  −0.0653  −0.0406   3.7916

Coefficients:
                  Estimate Std. Error z value Pr(>|z|)
(Intercept)      −8.667244   0.054181 −159.97   <2e−16 ***
tier_payers       1.338370   0.046185   28.98   <2e−16 ***
dx_pay_count      1.031027   0.022826   45.17   <2e−16 ***
dx_active_days    1.386661   0.015408   90.00   <2e−16 ***
d0_session_count  0.065352   0.006772    9.65   <2e−16 ***
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 40647  on 545216  degrees of freedom
AIC: 40657

Number of Fisher Scoring iterations: 9
```


ROC curve, days in game = 3
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.006 (0.863, 0.907)
AUC: 0.941
1.0
0.8
0.6
0.4
0.2
0.0
Specificity

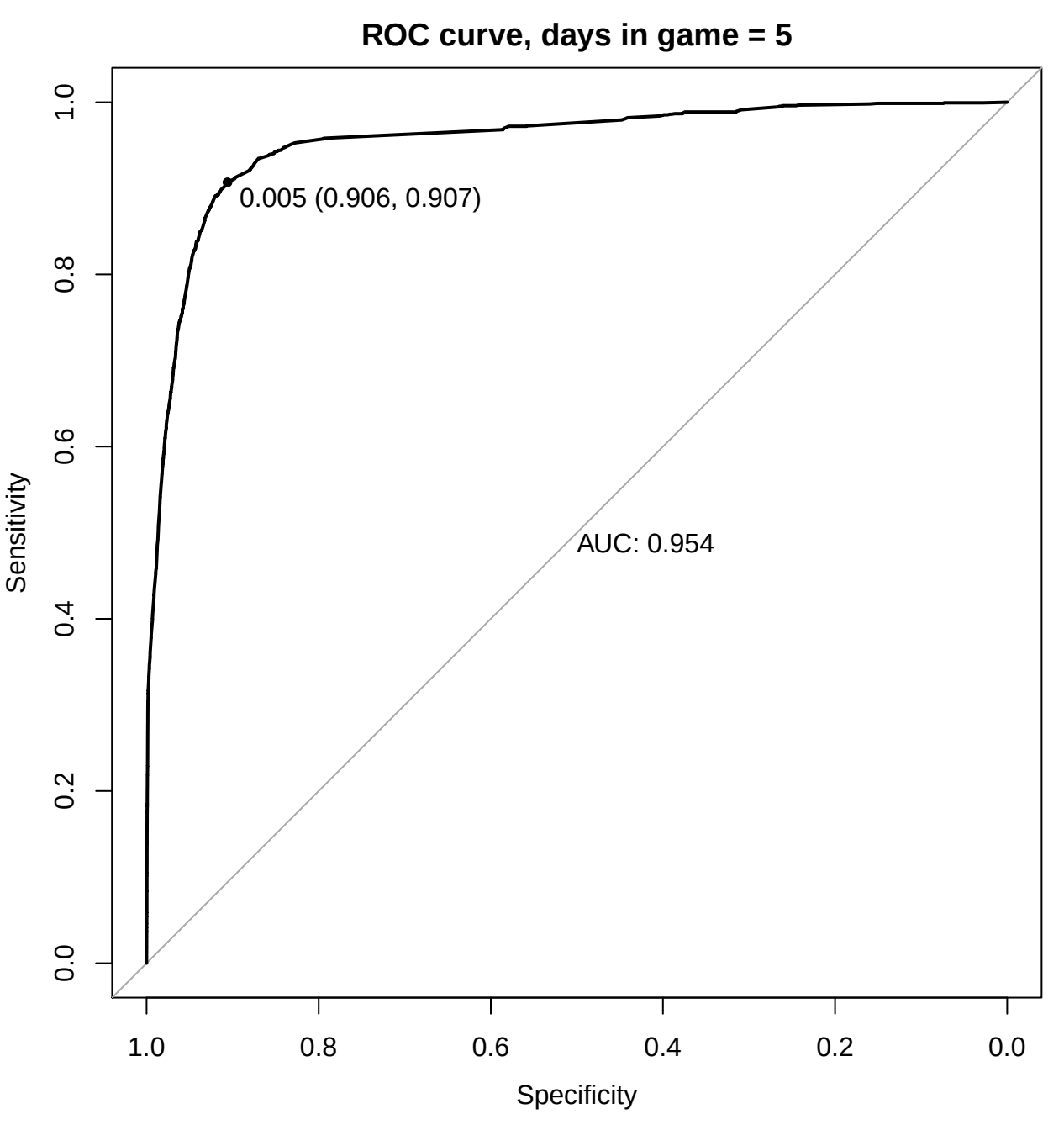

Features, days in game = 4
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

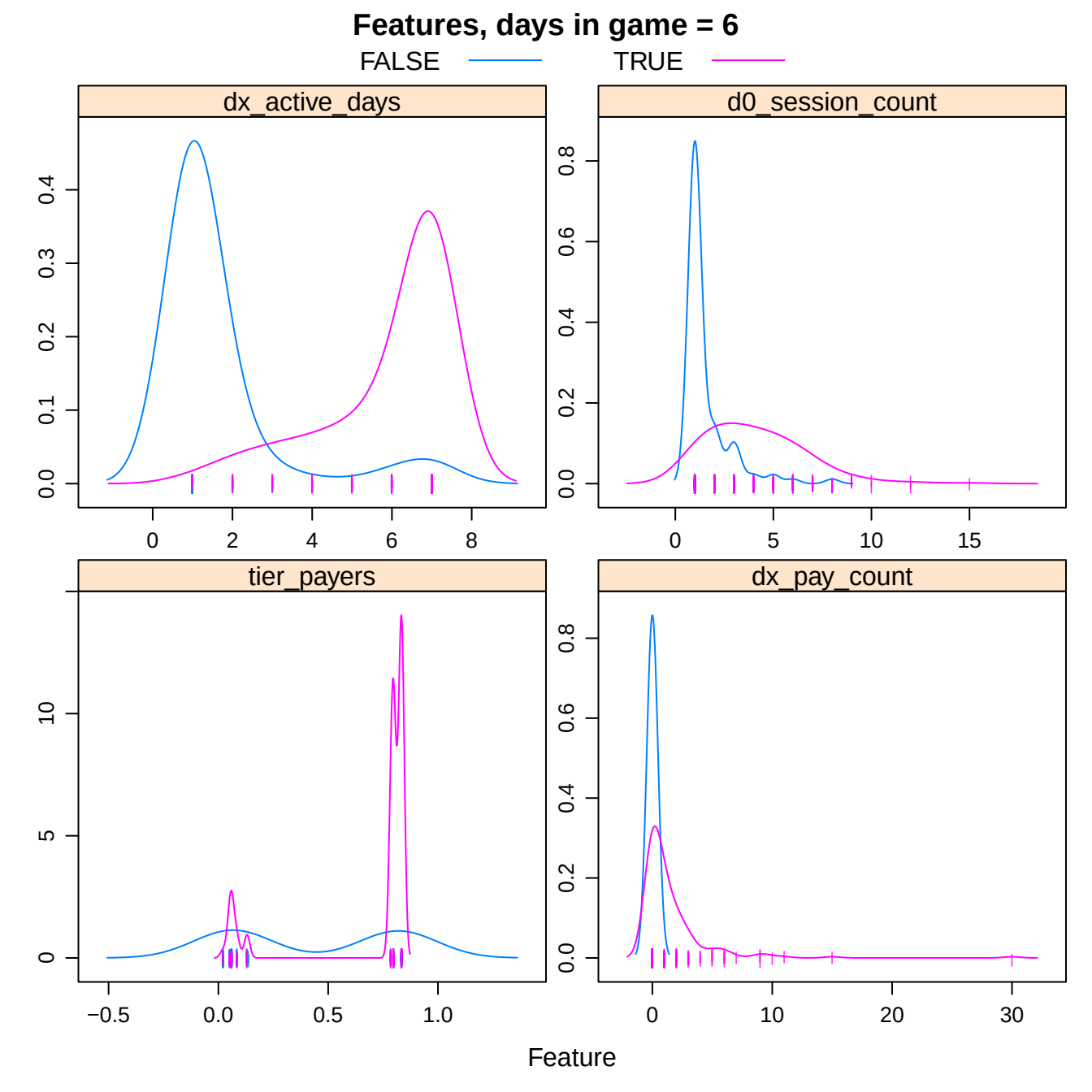
```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−5.5221  −0.0654  −0.0638  −0.0396   3.8010

Coefficients:
                  Estimate Std. Error  z value Pr(>|z|)
(Intercept)      −8.397043   0.052475 −160.019  < 2e−16 ***
tier_payers       1.323215   0.046790   28.280  < 2e−16 ***
dx_pay_count      0.994393   0.021384   46.502  < 2e−16 ***
dx_active_days    1.114414   0.011855   94.005  < 2e−16 ***
d0_session_count  0.032082   0.006981    4.596 4.32e−06 ***
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 38995  on 545216  degrees of freedom
AIC: 39005

Number of Fisher Scoring iterations: 9
```


ROC curve, days in game = 4
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.006 (0.890, 0.905)
AUC: 0.949
1.0
0.8
0.6
0.4
0.2
0.0
Specificity

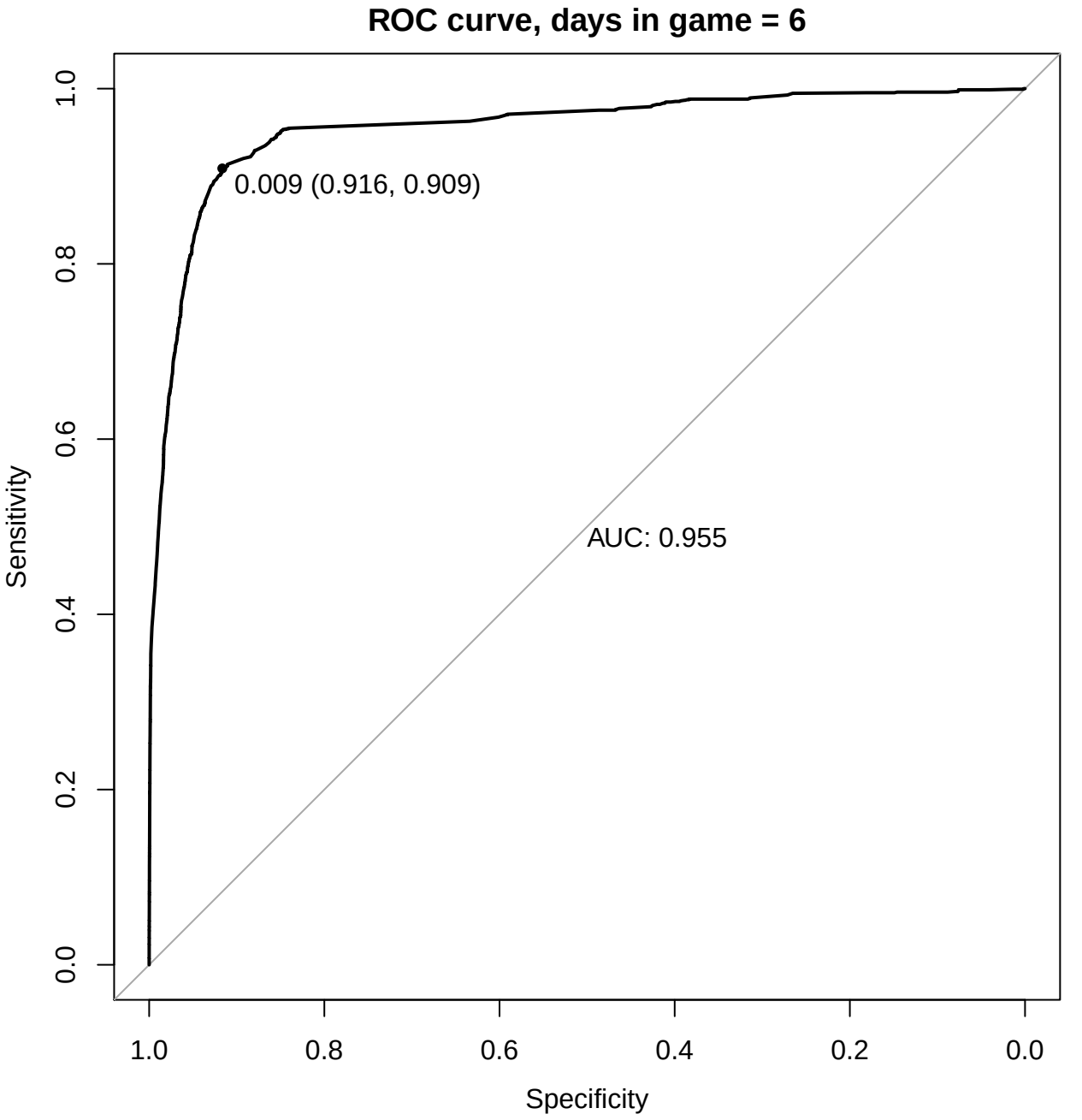

Features, days in game = 5
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

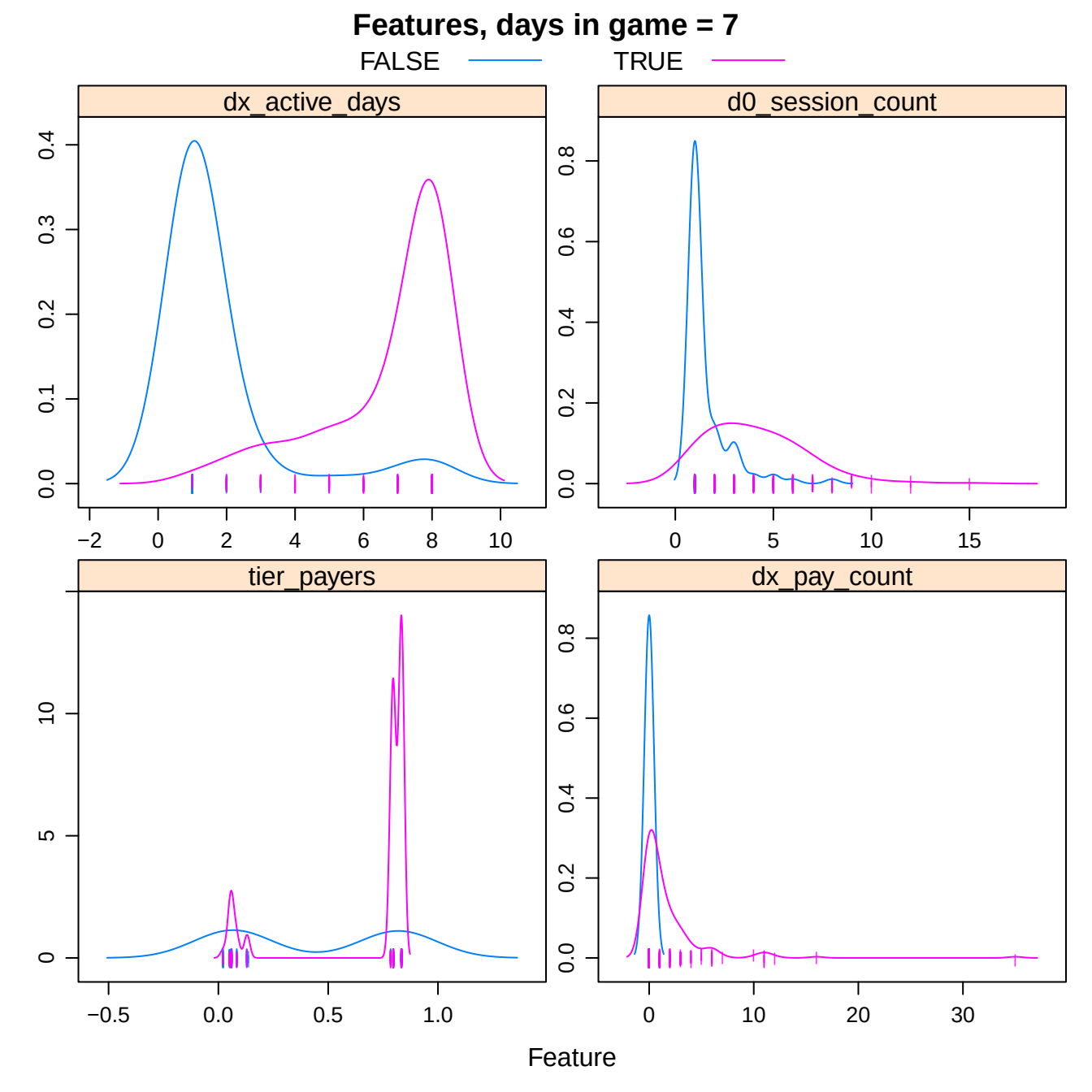
```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−6.1976  −0.0643  −0.0628  −0.0389   3.8057

Coefficients:
                  Estimate Std. Error  z value Pr(>|z|)
(Intercept)      −8.209980   0.051622 −159.040   <2e−16 ***
tier_payers       1.304576   0.047355   27.549   <2e−16 ***
dx_pay_count      0.986578   0.020355   48.468   <2e−16 ***
dx_active_days    0.931445   0.009656   96.461   <2e−16 ***
d0_session_count  0.010348   0.007133    1.451    0.147
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 37623  on 545216  degrees of freedom
AIC: 37633

Number of Fisher Scoring iterations: 9
```


ROC curve, days in game = 5
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.005 (0.906, 0.907)
AUC: 0.954
1.0
0.8
0.6
0.4
0.2
0.0
Specificity

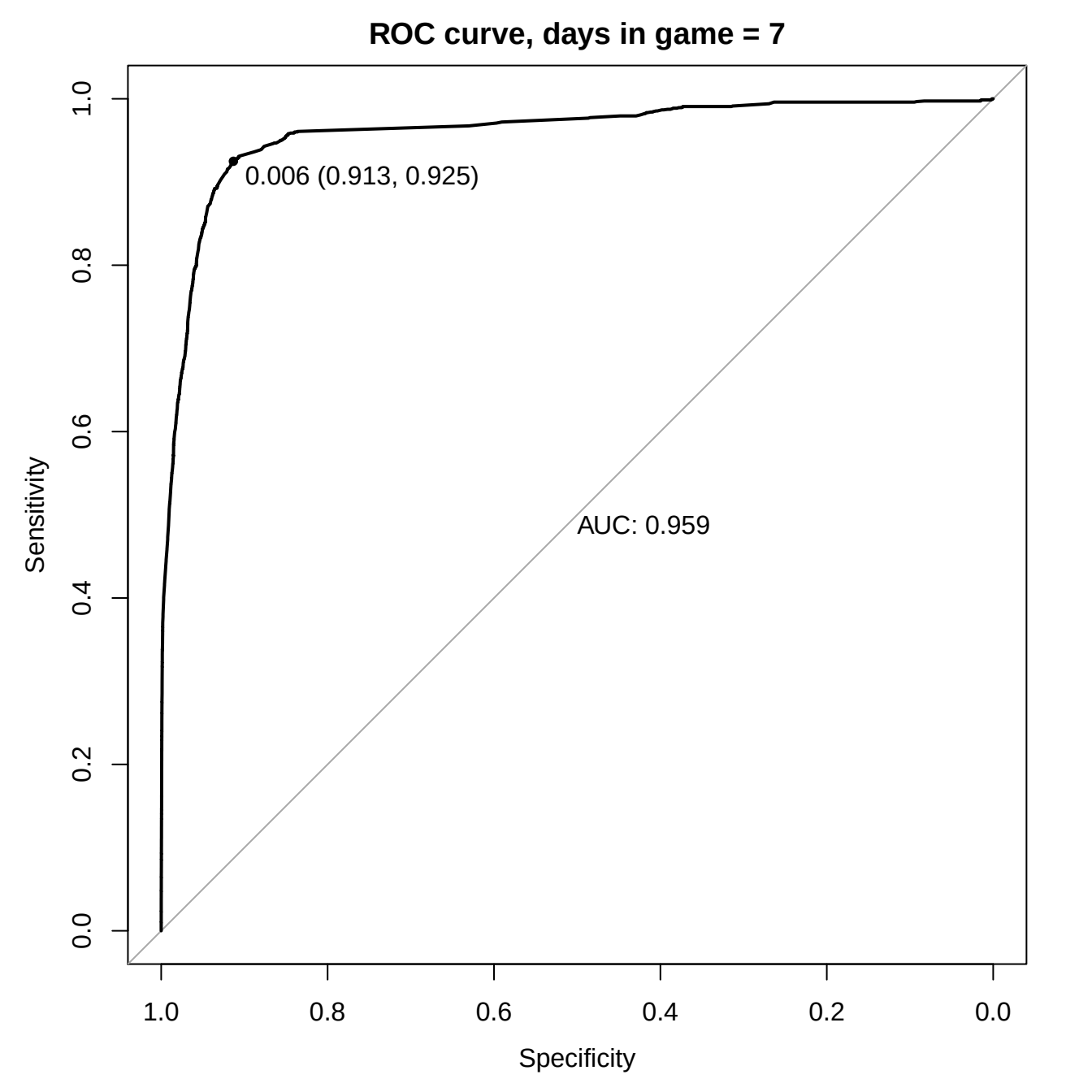

Features, days in game = 6
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−6.1609  −0.0629  −0.0614  −0.0382   3.8159

Coefficients:
                  Estimate Std. Error  z value Pr(>|z|)
(Intercept)      −8.101549   0.051460 −157.434   <2e−16 ***
tier_payers       1.292078   0.047862   26.996   <2e−16 ***
dx_pay_count      0.970228   0.019496   49.766   <2e−16 ***
dx_active_days    0.805772   0.008186   98.427   <2e−16 ***
d0_session_count −0.006320   0.007245   −0.872    0.383
−−−
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 36411  on 545216  degrees of freedom
AIC: 36421

Number of Fisher Scoring iterations: 9
```


ROC curve, days in game = 6
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.009 (0.916, 0.909)
AUC: 0.955
1.0
0.8
0.6
0.4
0.2
0.0
Specificity


Features, days in game = 7
FALSE
TRUE
dx_active_days
d0_session_count
tier_payers
dx_pay_count
Feature

```
Call:
glm(formula = dy_payer ~ ., family = "binomial", data = datTrain)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
−6.3505  −0.0620  −0.0606  −0.0378   3.8292

Coefficients:
                  Estimate Std. Error  z value Pr(>|z|)
(Intercept)      −8.013585   0.051435 −155.801   <2e−16 ***
tier_payers       1.284648   0.048439   26.521   <2e−16 ***
dx_pay_count      0.976461   0.019103   51.116   <2e−16 ***
dx_active_days    0.707552   0.007115   99.447   <2e−16 ***
d0_session_count −0.017904   0.007351   −2.435   0.0149 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 66254  on 545220  degrees of freedom
Residual deviance: 35313  on 545216  degrees of freedom
AIC: 35323

Number of Fisher Scoring iterations: 9
```


ROC curve, days in game = 7
Sensitivity
1.0
0.8
0.6
0.4
0.2
0.0
0.006 (0.913, 0.925)
AUC: 0.959
1.0
0.8
0.6
0.4
0.2
0.0
Specificity