

# DeteccaoFraude

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## Mini-Projeto - Detecção de Fraudes no Tráfego de Cliques em Propagandas de Aplicações Mobile

Esse projeto faz parte do curso formação cientista de dados da DataScience Academy  
([www.datascienceacademy.com.br](http://www.datascienceacademy.com.br))

Objetivo: Prever se um clique é fraudulento ou não.

### Etapa 1 - Carregando as bibliotecas e funções

```
#===== CARREGANDO AS BIBLIOTECAS =====  
=====
```

```
library(ggplot2)  
library(data.table)  
library(lubridate)
```

```
##  
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:data.table':  
##  
##   hour, isoweek, mday, minute, month, quarter, second, wday, week,  
##   yday, year
```

```
## The following object is masked from 'package:base':  
##  
##   date
```

```
library(dplyr)
```

```
##  
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:lubridate':  
##  
##   intersect, setdiff, union
```

```
## The following objects are masked from 'package:data.table':  
##  
##   between, first, last
```

```
## The following objects are masked from 'package:stats':  
##  
##   filter, lag
```

```
## The following objects are masked from 'package:base':  
##  
##   intersect, setdiff, setequal, union
```

```
library(randomForest)
```

```
## randomForest 4.6-14
```

```
## Type rfNews() to see new features/changes/bug fixes.
```

```
##  
## Attaching package: 'randomForest'
```

```
## The following object is masked from 'package:dplyr':  
##  
##   combine
```

```
## The following object is masked from 'package:ggplot2':  
##  
##   margin
```

```
library(DMwR)
```

```
## Loading required package: lattice
```

```
## Loading required package: grid
```

```
library(ROCR)
```

```
## Loading required package: gplots
```

```
##  
## Attaching package: 'gplots'
```

```
## The following object is masked from 'package:stats':  
##  
##   lowess
```

```
#===== DEFININDO AS FUNÇÕES =====
=====

# função que calcula a accurácia
accuracy <- function(real, predicted, type="C"){
  # classification
  if(type == "C"){
    S = round((sum(real == predicted)/length(real)), 4) * 100
    print(paste(toString(S), "%"))
  }
  else if(type == "R"){
    # regression
    print("...")
  }
}

# funções para gerar as curvas ROC e a relação precisão e recall, respectivamente.
plot.roc.curve <- function(predictions, title.text){
  perf <- performance(predictions, "tpr", "fpr")
  plot(perf, col = "black", lty = 1, lwd = 2,
        main = title.text, cex.main = 0.6,
        cex.lab = 0.8, xaxs="i", yaxs="i")
  abline(0,1, col = "red")
  auc <- performance(predictions, "auc")
  auc <- unlist(slot(auc, "y.values"))
  auc <- round(auc,2)
  legend(0.4,0.4, legend = c(paste0("AUC: ",auc)), cex = 0.6, bty = "n", box.col = "white")
}

plot.pr.curve <- function(predictions, title.text){
  perf <- performance(predictions, "prec", "rec")
  plot(perf, col = "black", lty = 1, lwd = 2,
        main = title.text, cex.main = 0.6, cex.lab = 0.8, xaxs = "i", yaxs = "i")
}
```

## Etapa 2 - Coletando os dados

Os dados foram retirados do endereço: <https://www.kaggle.com/c/talkingdata-adtracking-fraud-detection/data> (<https://www.kaggle.com/c/talkingdata-adtracking-fraud-detection/data>). Por ser um dataset muito grande utilizarei somente uma amostra dos dados de treino.

```
file = "./train_sample.csv"

df_fraude <- fread(file)
```

## Etapa 3 - Análise exploratória

```
str(df_fraude)
```

```
## Classes 'data.table' and 'data.frame': 100000 obs. of 8 variables:
## $ ip : int 87540 105560 101424 94584 68413 93663 17059 121505 192967
143636 ...
## $ app : int 12 25 12 13 12 3 1 9 2 3 ...
## $ device : int 1 1 1 1 1 1 1 1 2 1 ...
## $ os : int 13 17 19 13 1 17 17 25 22 19 ...
## $ channel : int 497 259 212 477 178 115 135 442 364 135 ...
## $ click_time : chr "2017-11-07 09:30:38" "2017-11-07 13:40:27" "2017-11-07 1
8:05:24" "2017-11-07 04:58:08" ...
## $ attributed_time: chr "" "" "" "" ...
## $ is_attributed : int 0 0 0 0 0 0 0 0 0 0 ...
## - attr(*, ".internal.selfref")=<externalptr>
```

```
summary(df_fraude)
```

```
##      ip      app      device      os
## Min.   : 9      Min.   : 1.00   Min.   : 0.00   Min.   : 0.00
## 1st Qu.:40552   1st Qu.: 3.00   1st Qu.: 1.00   1st Qu.:13.00
## Median :79827   Median :12.00   Median : 1.00   Median :18.00
## Mean   :91256   Mean   :12.05   Mean   :21.77   Mean   :22.82
## 3rd Qu.:118252  3rd Qu.:15.00   3rd Qu.: 1.00   3rd Qu.:19.00
## Max.   :364757  Max.   :551.00  Max.   :3867.00  Max.   :866.00
## channel click_time attributed_time is_attributed
## Min.   : 3.0   Length:100000   Length:100000   Min.   :0.00000
## 1st Qu.:145.0   Class :character   Class :character   1st Qu.:0.00000
## Median :258.0   Mode  :character   Mode  :character   Median :0.00000
## Mean   :268.8                                     Mean   :0.00227
## 3rd Qu.:379.0                                     3rd Qu.:0.00000
## Max.   :498.0                                     Max.   :1.00000
```

```
sum(is.na(df_fraude))
```

```
## [1] 0
```

```
# verificando a quantidade de valores únicos
unique(df_fraude$app)
```

```
## [1] 12 25 13 3 1 9 2 6 20 14 64 7 15 18 11 8 23 21
## [19] 56 28 36 22 26 17 27 10 60 58 19 32 24 4 53 125 204 5
## [37] 202 70 47 29 55 103 35 83 208 146 161 46 62 65 110 42 150 266
## [55] 151 148 72 310 93 94 71 43 39 170 37 68 54 107 398 160 30 183
## [73] 315 45 121 38 82 134 33 233 100 44 109 59 74 61 104 66 67 273
## [91] 192 50 118 372 48 232 165 91 123 88 538 49 16 105 536 216 425 117
## [109] 551 99 86 101 394 78 95 181 76 34 124 548 108 85 145 79 97 75
## [127] 52 215 84 96 81 139 267 80 137 119 474 158 293 122 112 149 363 271
## [145] 31 171 87 168 176 347 163 190 486 133 302 268 407 116 92 115 261
```

```
unique(df_fraude$os)
```

```
##    [1]  13  17  19   1  25  22  20   2  90  10  18  40  15  27  23  53  49  37
##   [19]  26  41   8  11   9  14  28  47   3   6  97   4  31  16  30  32  12  46
##   [37] 866  65  55  29  42  39  34 607  79  35  44   7   0 748  36  99  43  21
##   [55]  64  58  50  24  66  57 109  70  98 836  56 108  76 137  48   5  38  63
##   [73] 100  62  96  88  73  74 138  45  84  52  61 172  59  81 102  77  78  60
##   [91] 153  80 118  69  85 151  68 178 113 192 135 198  83 112  67 132  71 142
##  [109] 117 111 168 106 110 129 127 107 152 155 199 133 116  92 196  87 174 207
## [127] 184 114 185 193
```

```
unique(df_fraude$ip)
```

##	[1]	87540	105560	101424	94584	68413	93663	17059	121505	192967	143636
##	[11]	73839	34812	114809	114220	36150	72116	5314	106598	72065	37301
##	[21]	28735	66918	25761	8362	45257	145896	162976	52432	135690	139137
##	[31]	48846	70747	10831	89242	140138	28411	127888	75943	87879	250933
##	[41]	133933	35096	49431	53365	92599	107148	116677	11051	48240	92488
##	[51]	74999	123221	4019	40168	328403	134466	122354	104645	184757	3488
##	[61]	63994	52076	88604	9073	105861	25114	25876	61941	79827	99641
##	[71]	171729	257816	100494	5348	137208	81356	58128	71483	7521	100066
##	[81]	259930	30240	63109	36311	44494	111021	210555	6414	123729	73040
##	[91]	334558	123994	94536	127351	2600	99926	114878	173847	145747	94081
##	[101]	74725	51895	75431	104922	173247	124006	77310	61667	118349	46650
##	[111]	337099	34067	61635	145260	110245	77730	108831	124794	61706	91175
##	[121]	82618	81970	301417	187501	20295	25885	104753	191339	103208	92092
##	[131]	82427	47543	335694	175559	158312	108040	85072	197093	209540	79909
##	[141]	199702	40372	178124	18654	20309	74640	93460	80455	104729	58485
##	[151]	91885	111324	27342	153208	54868	278420	204614	85172	103161	59075
##	[161]	239191	85839	71424	63516	37919	43809	39454	8718	58950	86812
##	[171]	55805	175660	29785	88881	134615	34352	124320	80306	24830	195224
##	[181]	72805	93498	111685	83366	94844	105311	168144	20592	100002	37515
##	[191]	121357	63925	26995	37836	11090	65785	94765	98363	106241	112950
##	[201]	11668	105292	108048	113751	66232	69315	64663	69197	125481	143473
##	[211]	169833	75634	46132	111025	62145	191961	133804	61423	49850	151507
##	[221]	73456	88789	37892	234832	109299	12549	103443	46637	11907	98531
##	[231]	198014	47689	96037	3966	34725	285115	15540	49882	20411	33076
##	[241]	103021	313388	76453	175837	58614	49439	51544	334359	59142	246196
##	[251]	158559	68362	14130	24966	45745	67658	90306	23620	122292	57335
##	[261]	159688	93226	97814	76529	51778	88743	43899	50164	357463	131283
##	[271]	291594	87865	116067	115581	81009	105170	224120	7815	30724	290743
##	[281]	22088	73487	38755	173141	125271	84774	195958	87998	24977	7785
##	[291]	27849	105475	68568	340406	28310	32001	53454	164682	7246	92844
##	[301]	521	10760	103340	106541	44607	52923	45841	7372	83668	18350
##	[311]	109764	30443	141474	134346	110595	81001	175369	114439	53960	5788
##	[321]	79921	59401	55776	92766	206284	174783	25321	73516	111414	176758
##	[331]	144507	106279	73582	99945	93424	157650	120594	7346	86767	26934
##	[341]	27095	166206	78564	158511	81013	211682	100182	95640	74606	79012
##	[351]	84942	66272	38413	89475	33661	100929	9795	182972	162383	280918
##	[361]	112926	2144	186269	38941	92160	175051	217464	81468	60428	18682
##	[371]	90782	44527	88756	25126	68525	111182	70098	75007	33021	8499
##	[381]	120111	37135	106035	99897	52413	9923	10785	4680	67884	304381
##	[391]	6113	114461	166443	116351	333899	119868	229907	53964	105782	117867
##	[401]	93313	14463	141540	168224	24941	6262	44443	102301	8356	39175
##	[411]	47306	79881	28420	100339	69043	205574	50302	262808	43537	92922
##	[421]	164215	36979	339433	81514	204845	201540	92274	14639	114531	57994
##	[431]	290631	58524	84661	163553	100309	1067	259034	30424	121287	91048
##	[441]	167783	111195	117722	87167	44067	163416	67981	5621	88228	22352
##	[451]	85904	95750	58194	60752	30587	166181	43827	23322	85631	9281
##	[461]	81837	98365	125990	101650	93920	207899	63701	272894	95766	62016
##	[471]	107025	33924	231434	118079	141207	44458	54524	114636	359429	119289
##	[481]	18942	7340	122282	7435	12167	6831	8401	29467	115814	181741
##	[491]	17572	22256	194163	2511	47648	95866	114612	122688	93054	185372
##	[501]	82813	2539	35335	73983	43233	236144	75595	253793	102255	64639
##	[511]	19216	23271	118125	89567	6996	29533	70522	7795	126985	49407
##	[521]	90500	13034	42062	27818	25563	101894	51871	110628	21925	209627
##	[531]	86285	91250	64960	86388	26682	139216	106223	361422	42240	75374
##	[541]	88162	196018	9147	106000	69605	235120	46413	5729	4442	22385
##	[551]	60381	98944	118339	125175	23986	52961	108947	66596	116935	25679
##	[561]	118284	325602	14895	71017	211747	37161	162367	117989	52672	51686

##	[571]	85150	112291	81973	66184	201182	96021	213099	93587	47145	260488
##	[581]	166986	8005	28110	49754	110325	72467	40045	92834	119008	178522
##	[591]	47140	342636	131492	76181	20449	59903	144208	13212	97883	552
##	[601]	63787	59910	35705	67467	33762	78787	16478	81522	21126	12543
##	[611]	203499	95585	47293	219	116253	167368	27083	106143	213289	15251
##	[621]	56516	40838	124763	85107	125355	147865	58415	8482	83252	111299
##	[631]	85536	15360	49783	48282	14764	80331	97684	227493	3649	125837
##	[641]	92964	16535	28627	110596	1195	4570	146717	20593	259170	25097
##	[651]	108858	188580	105748	67197	183032	94877	196951	29943	264419	211520
##	[661]	17899	100510	12828	120005	29290	88143	159329	74306	105587	93620
##	[671]	140653	44490	60131	119347	23544	119901	100393	166224	203958	50983
##	[681]	14271	67188	210014	152055	7565	125205	123623	177104	118094	25737
##	[691]	1462	84107	95820	101690	135920	125730	70683	28221	116597	74515
##	[701]	133128	8625	32799	42821	33181	65676	333962	157414	37506	97444
##	[711]	121256	204209	974	78809	111121	338130	70097	55977	89778	111438
##	[721]	125288	41113	102880	37703	32577	16916	106063	131278	61780	27027
##	[731]	37437	14290	46416	27234	102515	34492	75171	48104	73994	256144
##	[741]	75786	39834	3591	48384	86105	23203	40342	40924	87783	105216
##	[751]	121209	59899	203031	198652	102917	45587	168236	31221	62140	54014
##	[761]	36750	207370	148601	118098	48212	120709	25057	154226	25544	16287
##	[771]	130973	68707	91758	20165	114939	73065	65113	115585	50312	106537
##	[781]	15680	89637	133435	41232	101214	192149	277831	67439	81643	106292
##	[791]	167013	116355	18434	166160	3461	27232	135457	106200	31959	175854
##	[801]	119369	125549	46943	42237	80058	45843	79834	102315	31444	43112
##	[811]	121472	170923	123701	112525	8992	353020	181611	111087	79425	259567
##	[821]	49582	52288	228902	45121	255687	272070	200058	156575	117923	49602
##	[831]	119848	64502	95463	70308	63712	102129	13579	48969	31440	285594
##	[841]	81513	108803	45117	2761	202675	38666	150157	199908	170136	187854
##	[851]	118229	12402	38609	4988	118019	149556	144825	226914	18075	48337
##	[861]	26350	34944	1815	12379	91712	41463	55729	142636	2714	93230
##	[871]	54525	206430	38069	51495	59508	21403	76822	41584	103147	129667
##	[881]	307445	42149	168178	67910	77117	158491	39561	114915	26876	118970
##	[891]	197789	197177	45463	202128	41287	31240	63093	34396	46351	120789
##	[901]	146060	110032	8314	91274	125222	81263	37145	56285	203383	91734
##	[911]	84793	95222	77182	14285	198707	168863	21074	49426	5299	24962
##	[921]	32472	43928	8208	71740	101342	7275	116384	81412	87012	37776
##	[931]	212322	345224	35317	161341	10716	4744	120721	118582	105679	100275
##	[941]	120312	61566	170767	62954	2095	3196	121966	175506	67772	93430
##	[951]	47273	191797	79740	113497	183004	122868	81419	82069	33703	60298
##	[961]	213553	149223	24000	18927	198573	209663	50131	87073	76880	11540
##	[971]	334383	64187	25009	93011	12524	124166	64047	119422	114719	119693
##	[981]	117021	7944	68930	43476	83860	81922	202524	275009	119531	32703
##	[991]	273562	84182	104838	188863	230256	5641	178928	199672	32487	27794
##	[1001]	183319	68963	55931	113563	105429	50565	164128	3262	83774	157880
##	[1011]	76012	35568	11797	37852	56155	118393	53843	205569	98344	123819
##	[1021]	95196	208669	54157	69266	38604	192120	105964	109240	29678	111638
##	[1031]	100712	7749	116530	110472	255	103115	59062	110589	109458	201930
##	[1041]	174608	15335	208260	100212	46648	144427	139943	3241	75727	78959
##	[1051]	181830	118950	103106	58442	280824	29865	43661	70446	129434	44615
##	[1061]	108881	122432	4451	19819	240848	29540	85625	16426	154891	73302
##	[1071]	50374	91040	77970	50560	94031	8391	55852	8171	118190	38692
##	[1081]	21894	102264	154431	76460	99761	22978	70896	156608	115230	8049
##	[1091]	88050	90469	27993	200358	79857	141171	72005	108918	54541	15547
##	[1101]	29748	36904	77048	10274	66033	28082	90855	50099	114235	73729
##	[1111]	23183	172522	48961	169885	38442	132109	196391	110079	80987	79001
##	[1121]	62916	70372	124325	89253	51048	40440	158907	69145	50418	17149
##	[1131]	24905	195797	10142	176128	20266	104496	199727	63457	37233	32612
##	[1141]	79666	50863	81550	19960	37367	49548	205911	139002	121679	67751

##	[1151]	7567	197347	16240	72638	25705	56439	219319	89786	8557	22572
##	[1161]	197393	10041	21789	88706	331335	95718	208920	211915	46805	119262
##	[1171]	6828	37972	350186	43447	123945	38265	119349	44536	62670	62440
##	[1181]	265596	118722	179883	111153	3994	183043	95442	11793	125204	124528
##	[1191]	31061	66013	77537	78504	57896	201307	71863	23038	178873	64400
##	[1201]	285739	54895	49851	54142	109723	50223	39453	85856	102456	76637
##	[1211]	175433	93021	188812	116055	96044	339364	77772	240210	140691	114116
##	[1221]	4295	69020	130856	171606	356470	40077	123607	75644	283432	114734
##	[1231]	203220	231128	126079	30991	101455	60041	68418	54418	131029	64696
##	[1241]	302281	97100	49208	48712	49082	22117	137052	4389	63881	103180
##	[1251]	33267	118474	64588	97425	91574	171687	76339	260218	45925	142484
##	[1261]	205096	7699	30372	70656	78422	138502	99777	113236	202617	31356
##	[1271]	168284	90976	66849	131635	89486	104032	158793	99187	176380	46549
##	[1281]	100176	196953	122048	291820	53715	72833	79166	25818	191106	81239
##	[1291]	2321	31331	89575	93641	65897	77949	96163	166507	51111	109670
##	[1301]	41179	40352	183321	57802	73595	102467	35973	62906	119585	38388
##	[1311]	230284	241284	109425	4886	11694	77523	259137	258646	118563	49386
##	[1321]	106781	17816	234549	259593	85644	31247	178538	21453	99534	68471
##	[1331]	55675	30647	44493	91006	83127	150251	140149	55117	100203	16667
##	[1341]	274109	75868	101183	100629	92789	249030	52987	81674	81327	105485
##	[1351]	76885	76917	123739	21345	140863	31482	85858	98635	16435	191759
##	[1361]	234634	20327	149063	121269	85329	37255	102005	106824	114146	45892
##	[1371]	80605	68384	31859	247000	187567	62701	67754	172483	76662	81510
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## [187] "2017-11-07 11:13:21" "2017-11-08 00:01:03" "2017-11-08 13:14:18"
## [190] "2017-11-08 03:40:54" "2017-11-07 07:35:47" "2017-11-07 09:03:35"
## [193] "2017-11-08 11:38:39" "2017-11-08 04:38:38" "2017-11-07 05:34:58"
## [196] "2017-11-09 07:21:55" "2017-11-07 07:47:54" "2017-11-08 14:28:21"
## [199] "2017-11-08 21:06:07" "2017-11-08 23:45:22" "2017-11-09 06:45:06"
## [202] "2017-11-07 13:00:22" "2017-11-06 23:16:28" "2017-11-08 14:30:55"
## [205] "2017-11-09 08:46:04" "2017-11-07 07:05:11" "2017-11-07 04:30:44"
## [208] "2017-11-07 08:49:54" "2017-11-09 08:34:40" "2017-11-08 14:09:52"
## [211] "2017-11-09 13:32:51" "2017-11-07 15:12:59" "2017-11-08 23:53:53"
## [214] "2017-11-08 07:03:53" "2017-11-08 11:25:09" "2017-11-09 15:15:34"
## [217] "2017-11-08 10:15:57" "2017-11-09 11:49:13" "2017-11-09 08:07:09"
## [220] "2017-11-07 03:17:23" "2017-11-08 12:07:07" "2017-11-09 00:21:23"
## [223] "2017-11-08 06:21:17" "2017-11-09 09:24:31" "2017-11-09 11:20:15"
## [226] "2017-11-08 14:58:38" "2017-11-08 15:37:58" "2017-11-08 15:09:40"
```

```
# existe muitos valores 1's
df_temp <- df_fraude %>%
  group_by(device) %>%
  summarise(quantidade = n()) %>%
  mutate(freq = round(quantidade/dim(df_fraude)[1], 2))

df_temp[order(df_temp$freq, decreasing = T), ]
```

device <int>	quantidade <int>	freq <dbl>
1	94338	0.94
2	4345	0.04
0	541	0.01
4	3	0.00
5	7	0.00
6	8	0.00
7	2	0.00
9	1	0.00
11	1	0.00
16	7	0.00

1-10 of 100 rows

Previous **1** 2 3 4 5 6 ... 10 Next

```
# tabela cruzada entre as variáveis device e is_attributed
deviceTable <- table(df_fraude$is_attributed, df_fraude$device)
names(dimnames(deviceTable)) <- c("Is_Attributed", "Device")
deviceTable
```

```
##           Device
## Is_Attributed    0    1    2    4    5    6    7    9   11   16   17
##           0  489 94192  4343    2    7    7    2    1    1    4    1
##           1   52   146    2    1    0    1    0    0    0    3    0
##           Device
## Is_Attributed   18   20   21   25   30   33   36   37   40   49   50
##           0    1    2    1    3    1    2    0    1    6    1    3
##           1    0    0    2    0    1    1    1    0    1    0    1
##           Device
## Is_Attributed   53   56   58   59   60   67   74   76   78   79   97
##           0    1    1    1   12    2    2    1    1    2    1    2
##           1    0    1    0    0    1    0    1    0    0    0    3
##           Device
## Is_Attributed  100  102  103  106  109  114  116  124  129  154  160
##           0    1    0    1    1    1    2    0    2    1    1    2
##           1    0    1    0    0    1    0    1    0    0    0    0
##           Device
## Is_Attributed  163  167  180  182  188  196  202  203  210  211  220
##           0    1    1    0    2    0    1    1    1    1    2    1
##           1    0    0    1    0    1    0    0    0    0    0    0
##           Device
## Is_Attributed  241  268  291  321  329  347  351  362  374  385  386
##           0    1    1    1    1    1    1    0    1    1    1    1
##           1    0    0    0    0    0    0    1    0    0    0    0
##           Device
## Is_Attributed  414  420  486  516  549  552  558  579  581  596  607
##           0    1    1    1    1    1    1    2    0    0    1    1
##           1    0    0    0    0    0    0    0    1    1    0    0
##           Device
## Is_Attributed  657  828  883  928  957 1042 1080 1162 1318 1422 1482
##           0    1    1    1    1    0    1    1    1    1    1    1
##           1    0    0    0    0    1    0    0    0    0    0    0
##           Device
## Is_Attributed 1728 1839 2120 2429 2980 3032 3282 3331 3543 3545 3866
##           0    1    1    1    1    1  371    1    1  151    1    93
##           1    0    0    0    0    0    0    0    0    0    0    0
##           Device
## Is_Attributed  3867
##           0    1
##           1    0
```

## Etapa 4 - Engenharia de atributos e transformação dos dados

```
# transformando as variáveis para os tipos corretos
df_fraude$is_attributed <- as.factor(df_fraude$is_attributed)

df_fraude$click_time <- parse_date_time(df_fraude$click_time, orders="ymd HMS")

summary(df_fraude)
```

```

##          ip          app          device          os
## Min.      :    9   Min.      : 1.00   Min.      : 0.00   Min.      : 0.00
## 1st Qu.: 40552   1st Qu.: 3.00   1st Qu.: 1.00   1st Qu.: 13.00
## Median : 79827   Median : 12.00   Median : 1.00   Median : 18.00
## Mean      : 91256   Mean      : 12.05   Mean      : 21.77   Mean      : 22.82
## 3rd Qu.:118252   3rd Qu.: 15.00   3rd Qu.: 1.00   3rd Qu.: 19.00
## Max.      :364757   Max.      :551.00   Max.      :3867.00   Max.      :866.00
##   channel      click_time      attributed_time      is_attributed
## Min.      : 3.0   Min.      :2017-11-06 16:00:00   Length:100000      0:99773
## 1st Qu.:145.0   1st Qu.:2017-11-07 11:34:09   Class :character    1: 227
## Median :258.0   Median :2017-11-08 07:07:50   Mode  :character
## Mean      :268.8   Mean      :2017-11-08 06:29:52
## 3rd Qu.:379.0   3rd Qu.:2017-11-09 02:06:01
## Max.      :498.0   Max.      :2017-11-09 15:59:51

```

```

# engenharia de atributos
df_fraude$days <- weekdays(df_fraude$click_time)
df_fraude$days <- as.factor(sapply(df_fraude$days,
                                   function(x){
                                     if(x == "segunda")
                                       return(1)
                                     else if(x == "terça")
                                       return(2)
                                     else if(x == "quarta")
                                       return(3)
                                     else if(x == "quinta")
                                       return(4)
                                     else if(x == "sexta")
                                       return(5)
                                     else if(x == "sábado")
                                       return(6)
                                     else if(x == "domingo")
                                       return(7)
                                   }))

df_fraude$clkHour <- hour(df_fraude$click_time)

df_fraude$device <- as.factor(sapply(df_fraude$device,
                                     function(x){
                                       # not 1
                                       if(x != 1)
                                         return(2)
                                       else
                                         return(1)
                                     }))

# CLICK POR APP DADO UM IP POR HORA
df_fraude2 <- df_fraude %>%
  select(-c("attributed_time")) %>%
  group_by(ip, app, clkHour) %>%
  mutate(n = n()) %>%
  rename("IpAppClickByHour" = n)

# CLICK POR OS DADO UM IP POR HORA
df_fraude2 <- df_fraude2 %>%
  group_by(ip, os, clkHour) %>%
  mutate(n = n()) %>%
  rename("IpOsClickByHour" = n)

# CLICK POR CHANNEL DADO UM IP POR HORA
df_fraude2 <- df_fraude2 %>%
  group_by(ip, channel, clkHour) %>%
  mutate(n = n()) %>%
  rename("IpChannelClickByHour" = n)

# CLICK POR DIA DADO UM IP
df_fraude2 <- df_fraude2 %>%
  group_by(ip, days) %>%

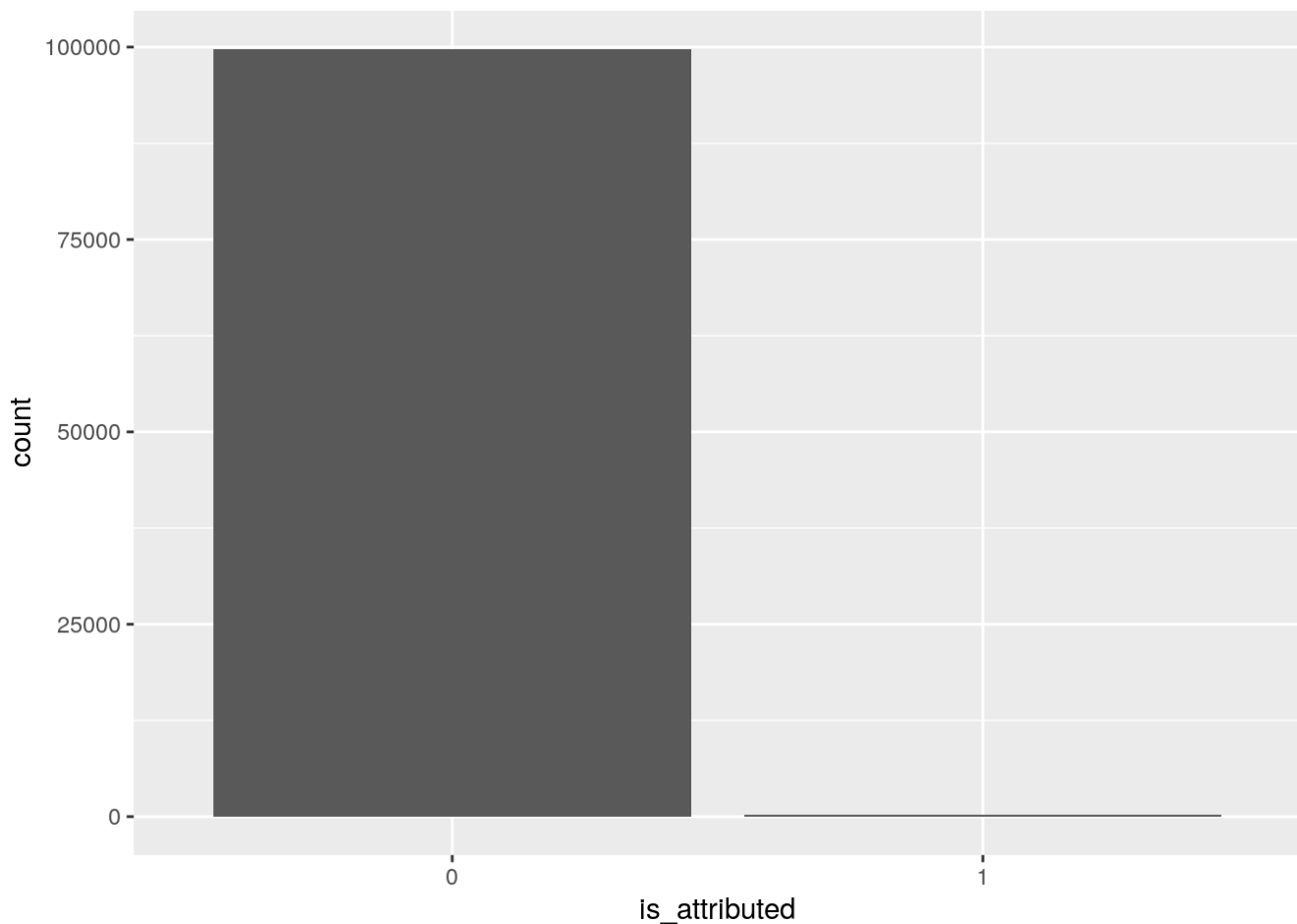
```

```
mutate(n = n()) %>%  
  rename("IpClickByDay" = n)  
  
df_fraude3 <- df_fraude2 %>%  
  select(-c("ip", "app", "channel", "os"))
```

```
## Adding missing grouping variables: `ip`
```

```
df_fraude3$ip <- NULL  
  
# dataset totalmente desbalanceado  
ggplot(data = df_fraude, aes(x = is_attributed)) +  
  geom_histogram(stat="count")
```

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```





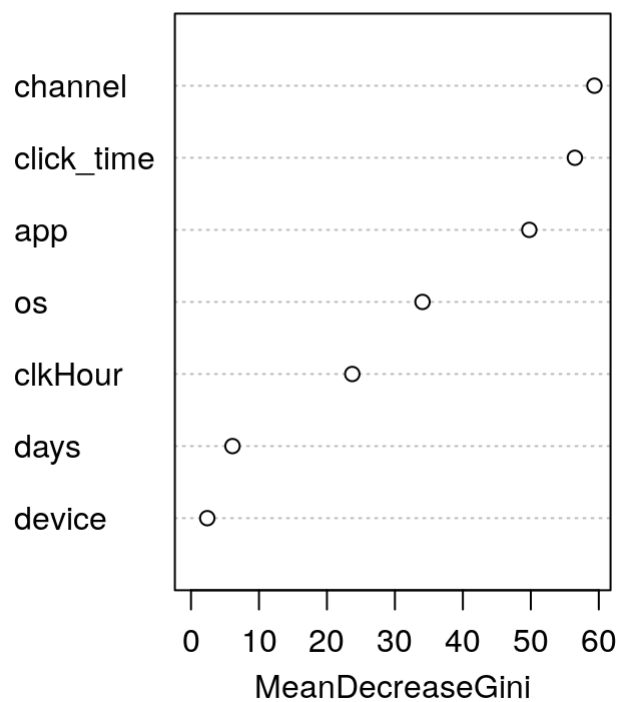
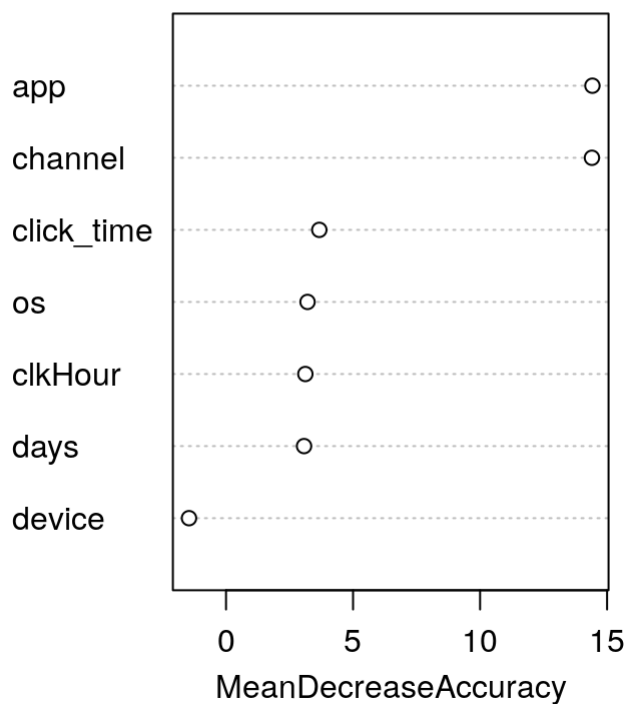
```
# seleção de atributos
modeloImp1 <- randomForest(data = df_fraude,
                           is_attributed ~ .
                           -attributed_time
                           -ip,
                           ntree = 70,
                           nodesize = 10,
                           importance = TRUE)

modeloImp2 <- randomForest(data = df_fraude2,
                           is_attributed ~ .
                           -ip,
                           ntree = 70,
                           nodesize = 10,
                           importance = TRUE)

modeloImp3 <- randomForest(data = df_fraude3,
                           is_attributed ~ .,
                           ntree = 70,
                           nodesize = 10,
                           importance = TRUE)

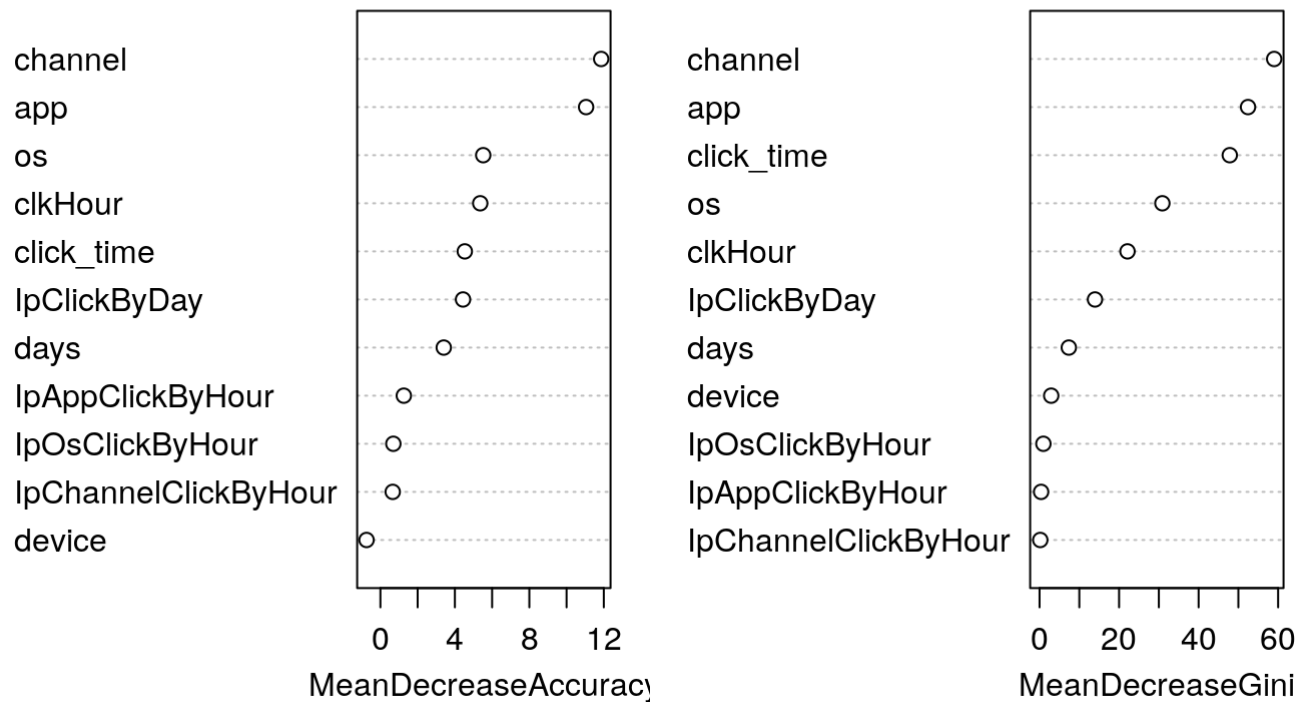
varImpPlot(modeloImp1)
```

modeloImp1



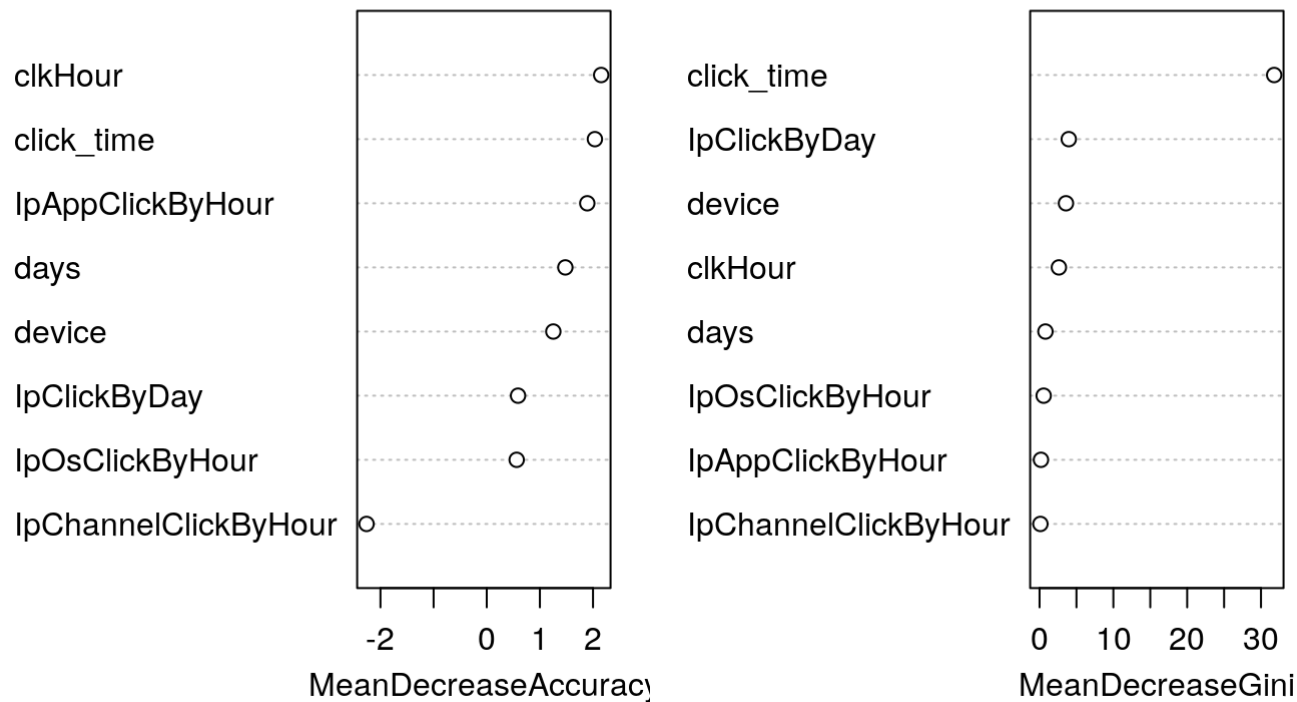
```
varImpPlot(modeloImp2)
```

modeloImp2



```
varImpPlot(modeloImp3)
```

modeloImp3

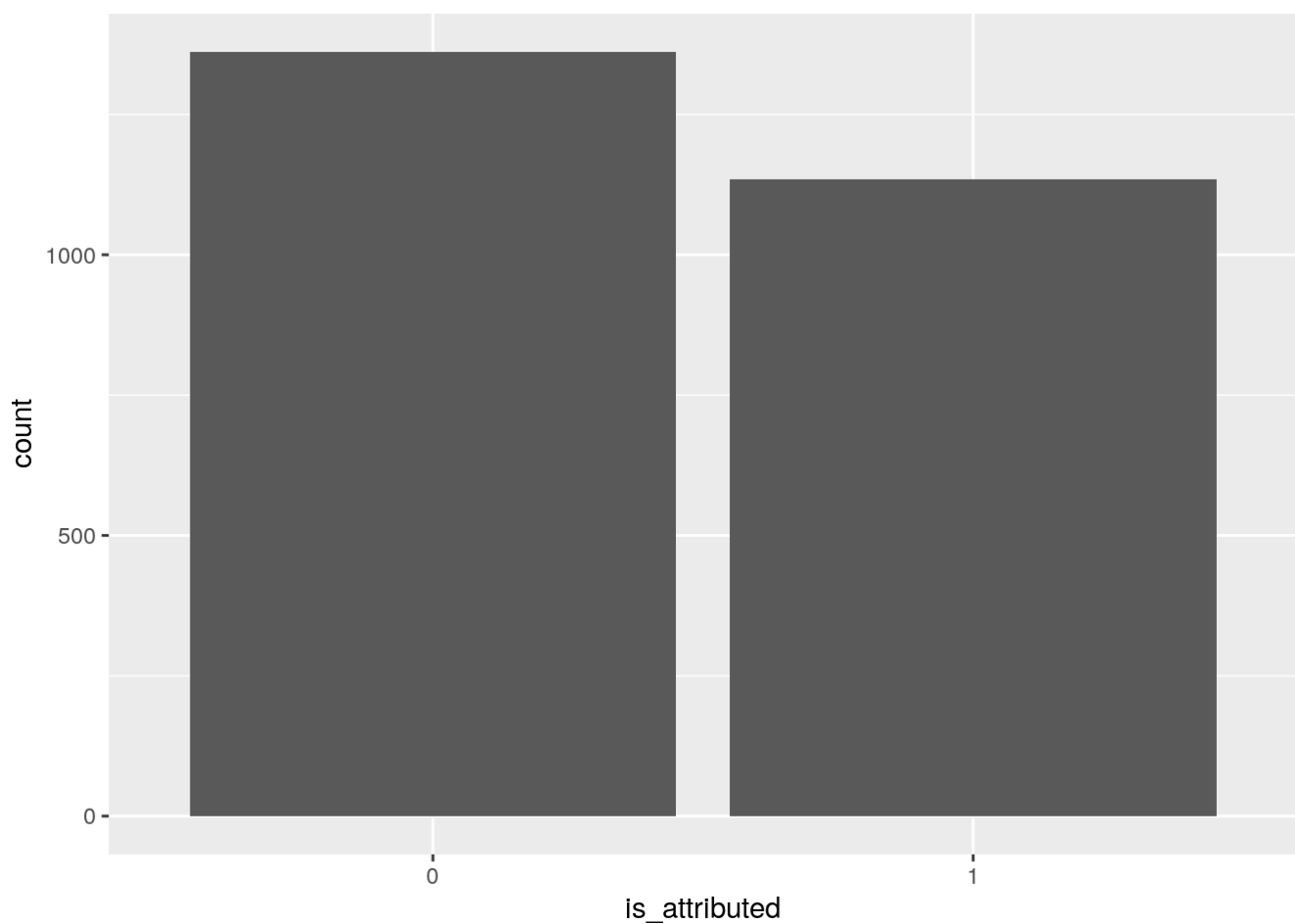


```
df_fraude2$click_time <- NULL
df_fraude2$ip <- NULL

# balanceando os dados
df_fraudeBalanceado <- SMOTE(is_attributed ~ .,
                             data = as.data.frame(df_fraude2),
                             perc.over = 450,
                             perc.under = 150)

ggplot(data = df_fraudeBalanceado, aes(x = is_attributed)) +
  geom_histogram(stat="count")
```

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



## Etapa 4 - Separando em dados de treino e teste e Criando o modelo

```
# criação do modelo
set.seed(101)
indices <- sample(1:nrow(df_fraudeBalanceado), 0.7*nrow(df_fraudeBalanceado))

treino <- df_fraudeBalanceado[indices, ]
teste <- df_fraudeBalanceado[-indices, ]

varAlvo <- teste$is_attributed
teste$is_attributed <- NULL

# execução do modelo usando random forest
rf_model <- randomForest(is_attributed ~ .,
                          data = treino,
                          ntree = 90)

rf_prediction <- predict(rf_model, teste)
accuracy(varAlvo, rf_prediction)
```

```
## [1] "93.2 %"
```

```
# execução do modelo usando naive bayes
library(e1071)
naive_model <- naiveBayes(is_attributed ~.,
                           data = treino)

naive_prediction <- predict(naive_model, teste)
accuracy(varAlvo, naive_prediction)
```

```
## [1] "57.6 %"
```

## Etapa 5 - Avaliando o modelo

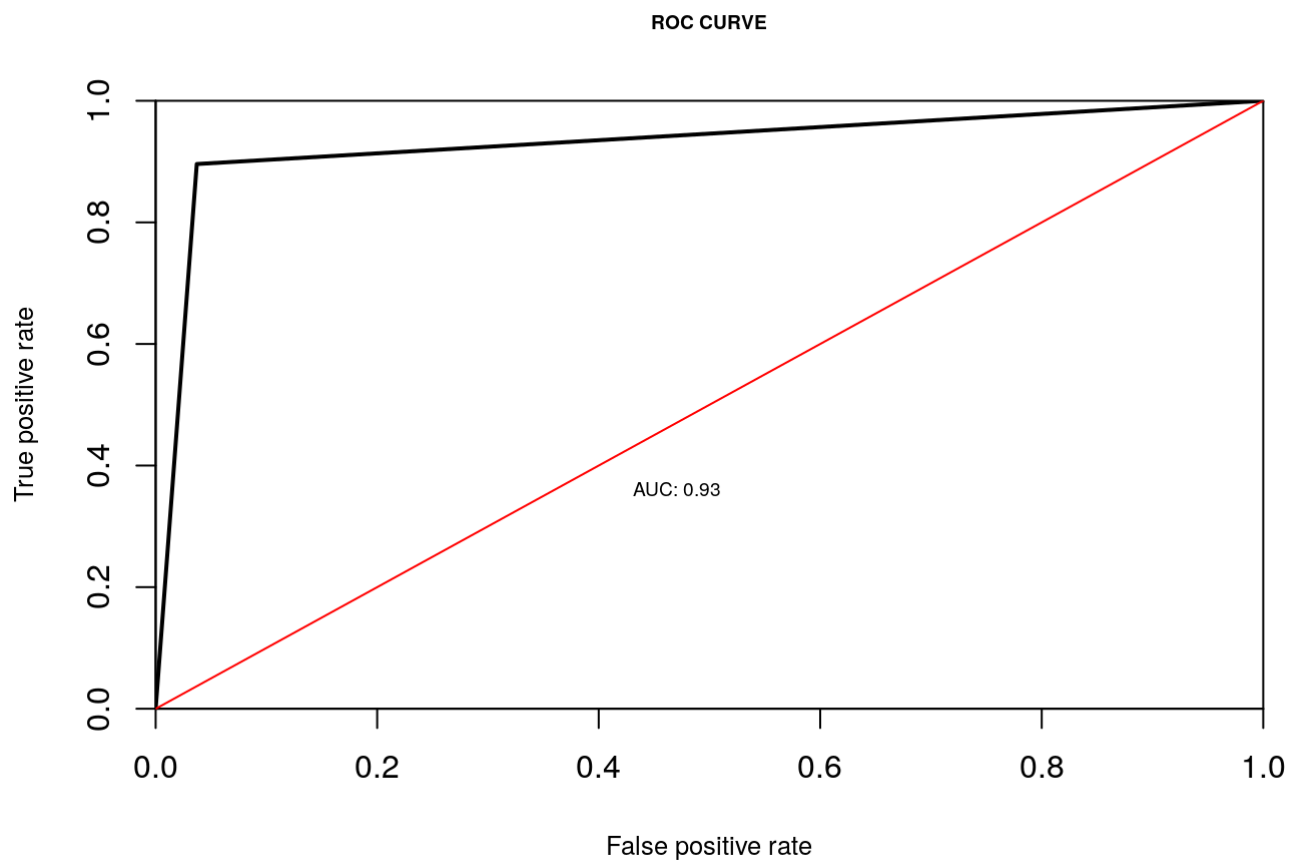
```
library(caret)

tabelaContigencia <- table(rf_prediction, varAlvo)
names(dimnames(tabelaContigencia)) <- c("Previsto", "Real")

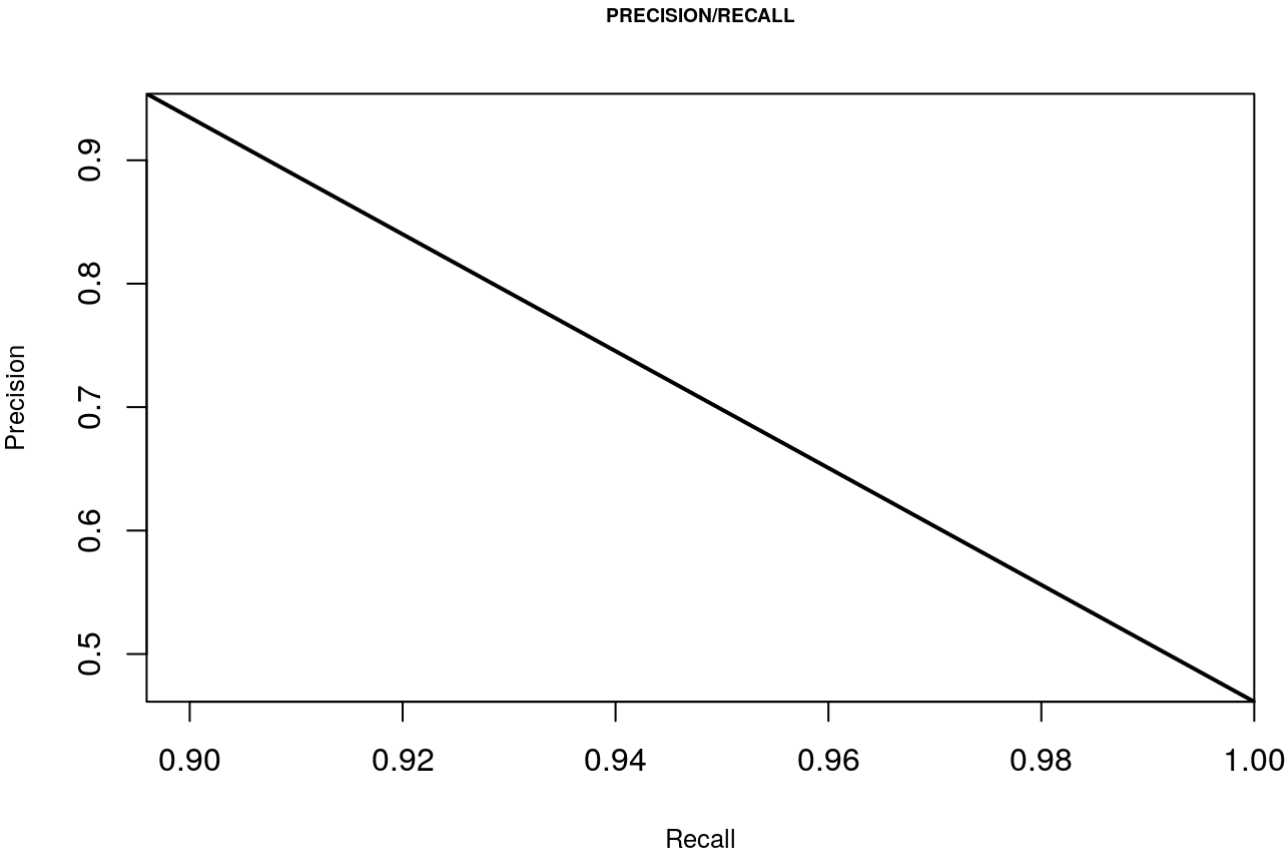
confusionMatrix(tabelaContigencia, positive = '1')
```

```
## Confusion Matrix and Statistics
##
##           Real
## Previsto   0   1
##           0 389  36
##           1  15 310
##
##           Accuracy : 0.932
##           95% CI : (0.9116, 0.949)
##           No Information Rate : 0.5387
##           P-Value [Acc > NIR] : < 2.2e-16
##
##           Kappa : 0.8626
##
##           Mcnemar's Test P-Value : 0.005101
##
##           Sensitivity : 0.8960
##           Specificity : 0.9629
##           Pos Pred Value : 0.9538
##           Neg Pred Value : 0.9153
##           Prevalence : 0.4613
##           Detection Rate : 0.4133
##           Detection Prevalence : 0.4333
##           Balanced Accuracy : 0.9294
##
##           'Positive' Class : 1
##
```

```
plot.roc.curve(prediction(predictions = as.numeric(rf_prediction), labels = as.numeric(varAlvo)),
               "ROC CURVE")
```



```
plot.pr.curve(prediction(predictions = as.numeric(rf_prediction), labels = as.numeric(
  (varAlvo)),
  "PRECISION/RECALL")
```



Fim