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13970	0.004914031	0
13971	0.004905557	0
13972	0.004914031	0
13973	0.004905557	0
13974	0.004905557	0
13975	0.004905557	0
13976	0.004905557	0
13977	0.004905557	0
13978	0.004883458	0
13979	0.004883458	0
13980	0.004861443	0
13981	0.004905557	0

13982	0.004880565	0
13983	0.004844602	0
13984	0.004868099	0
13985	0.004861443	0
13986	0.004848812	0
13987	0.004844602	0
13988	0.004844602	0
13989	0.004844602	0
13990	0.004839498	0
13991	0.004829292	0
13992	0.004831092	0
13993	0.004831092	0
13994	0.004817615	0
13995	0.004815825	0
13996	0.004802391	0
13997	0.004811343	0
13998	0.004802391	0
13999	0.004802391	0
14000	0.004802391	0
14001	0.004802391	0
14002	0.004802391	0
14003	0.004802391	0
14004	0.004802391	0
14005	0.004802391	0
14006	0.004797824	0
14007	0.004802391	0
14008	0.004802391	0
14009	0.004802391	0
14010	0.004780675	0
14011	0.004759041	0
14012	0.004788691	0
14013	0.004759041	0
14014	0.004788691	0
14015	0.004759041	0
14016	0.004748957	0
14017	0.004751478	0
14018	0.004743914	0
14019	0.004743914	0
14020	0.004743914	0
14021	0.004738872	0
14022	0.004743914	0
14023	0.004743914	0
14024	0.004736351	0
14025	0.004699490	0
14026	0.004728788	0
14027	0.004714119	0
14028	0.004728788	0
14029	0.004709238	0
14030	0.004699490	0
14031	0.004699490	0
14032	0.004714119	0
14033	0.004699490	0
14034	0.004699490	0
14035	0.004699490	0
14036	0.004699490	0
14037	0.004699490	0
14038	0.004699490	0
14039	0.004691222	0
14040	0.004699490	0
14041	0.004682955	0
14042	0.004691222	0
14043	0.004699490	0
14044	0.004688467	0
14045	0.004691222	0
14046	0.004682955	0
14047	0.004682955	0
14048	0.004682955	0
14049	0.004682955	0
14050	0.004682955	0
14051	0.004659477	0
14052	0.004667453	0
14053	0.004667925	0
14054	0.004636099	0
14055	0.004667925	0

14056	0.004667925	0
14057	0.004645248	0
14058	0.004645248	0
14059	0.004667925	0
14060	0.004645248	0
14061	0.004622665	0
14062	0.004622665	0
14063	0.004622665	0
14064	0.004622665	0
14065	0.004622665	0
14066	0.004622665	0
14067	0.004622665	0
14068	0.004622665	0
14069	0.004617690	0
14070	0.004622665	0
14071	0.004622665	0
14072	0.004607739	0
14073	0.004622665	0
14074	0.004615202	0
14075	0.004615202	0
14076	0.004622665	0
14077	0.004622665	0
14078	0.004607739	0
14079	0.004615202	0
14080	0.004622665	0
14081	0.004622665	0
14082	0.004615202	0
14083	0.004617690	0
14084	0.004622665	0
14085	0.004608304	0
14086	0.004622665	0
14087	0.004613087	0
14088	0.004622665	0
14089	0.004622665	0
14090	0.004593983	0
14091	0.004593983	0
14092	0.004622665	0
14093	0.004622665	0
14094	0.004593983	0
14095	0.004608304	0
14096	0.004593983	0
14097	0.004608304	0
14098	0.004593983	0
14099	0.004593983	0
14100	0.004593983	0
14101	0.004593983	0
14102	0.004593983	0
14103	0.004593983	0
14104	0.004593983	0
14105	0.004593983	0
14106	0.004593983	0
14107	0.004593983	0
14108	0.004607333	0
14109	0.004581128	0
14110	0.004607333	0
14111	0.004607333	0
14112	0.004607333	0
14113	0.004607333	0
14114	0.004594293	0
14115	0.004607333	0
14116	0.004607333	0
14117	0.004607333	0
14118	0.004594440	0
14119	0.004614750	0
14120	0.004581579	0
14121	0.004581579	0
14122	0.004581579	0
14123	0.004601836	0
14124	0.004601836	0
14125	0.004608605	0
14126	0.004622167	0
14127	0.004596329	0
14128	0.004596329	0
14129	0.004596329	0

14130	0.004596329	0
14131	0.004596329	0
14132	0.004596329	0
14133	0.004596329	0
14134	0.004612556	0
14135	0.004612556	0
14136	0.004612556	0
14137	0.004612556	0
14138	0.004598206	0
14139	0.004598206	0
14140	0.004612556	0
14141	0.004627308	0
14142	0.004612911	0
14143	0.004627308	0
14144	0.004608122	0
14145	0.004612911	0
14146	0.004598555	0
14147	0.004612911	0
14148	0.004627308	0
14149	0.004612911	0
14150	0.004598555	0
14151	0.004598555	0
14152	0.004598555	0
14153	0.004617706	0
14154	0.004598555	0
14155	0.004598555	0
14156	0.004627469	0
14157	0.004642060	0
14158	0.004642060	0
14159	0.004627618	0
14160	0.004642060	0
14161	0.004642060	0
14162	0.004627618	0
14163	0.004613215	0
14164	0.004645678	0
14165	0.004626410	0
14166	0.004640854	0
14167	0.004640854	0
14168	0.004640854	0
14169	0.004626410	0
14170	0.004626410	0
14171	0.004648091	0
14172	0.004626410	0
14173	0.004640854	0
14174	0.004640854	0
14175	0.004626410	0
14176	0.004655338	0
14177	0.004636035	0
14178	0.004641072	0
14179	0.004650727	0
14180	0.004641072	0
14181	0.004641072	0
14182	0.004661502	0
14183	0.004657200	0
14184	0.004657200	0
14185	0.004680114	0
14186	0.004670397	0
14187	0.004670397	0
14188	0.004684980	0
14189	0.004690890	0
14190	0.004696278	0
14191	0.004707780	0
14192	0.004707791	0
14193	0.004715857	0
14194	0.004715857	0
14195	0.004723189	0
14196	0.004734922	0
14197	0.004743722	0
14198	0.004743722	0
14199	0.004751789	0
14200	0.004759856	0
14201	0.004766457	0
14202	0.004766457	0
14203	0.004743369	0

14204	0.004730250	0
14205	0.004781125	0
14206	0.004783814	0
14207	0.004796527	0
14208	0.004759403	0
14209	0.004803862	0
14210	0.004817065	0
14211	0.004802062	0
14212	0.004787101	0
14213	0.004818149	0
14214	0.004810105	0
14215	0.004833202	0
14216	0.004803137	0
14217	0.004809698	0
14218	0.004816258	0
14219	0.004816258	0
14220	0.004824277	0
14221	0.004847400	0
14222	0.004832296	0
14223	0.004832296	0
14224	0.004832296	0
14225	0.004832296	0
14226	0.004846877	0
14227	0.004860000	0
14228	0.004855626	0
14229	0.004860000	0
14230	0.004853439	0
14231	0.004860000	0
14232	0.004846877	0
14233	0.004846877	0
14234	0.004868609	0
14235	0.004846877	0
14236	0.004861019	0
14237	0.004890424	0
14238	0.004846877	0
14239	0.004846877	0
14240	0.004846877	0
14241	0.004890424	0
14242	0.004868609	0
14243	0.004875481	0
14244	0.004860000	0
14245	0.004868020	0
14246	0.004865347	0
14247	0.004868020	0
14248	0.004876040	0
14249	0.004860000	0
14250	0.004875481	0
14251	0.004860000	0
14252	0.004876040	0
14253	0.004876040	0
14254	0.004876040	0
14255	0.004889165	0
14256	0.004889165	0
14257	0.004889165	0
14258	0.004889165	0
14259	0.004889165	0
14260	0.004912499	0
14261	0.004919791	0
14262	0.004908539	0
14263	0.004919791	0
14264	0.004919791	0
14265	0.004932917	0
14266	0.004932917	0
14267	0.004932917	0
14268	0.004940939	0
14269	0.004926354	0
14270	0.004932917	0
14271	0.004932917	0
14272	0.004932917	0
14273	0.004948961	0
14274	0.004931992	0
14275	0.004948961	0
14276	0.004955525	0
14277	0.004970111	0

```

14278    0.004938734      0
14279    0.004944046      0
14280    0.004951289      0
14281    0.004958532      0
14282    0.004958532      0
14283    0.004958532      0
14284    0.004975601      0
14285    0.004976856      0
[ reached 'max' / getOption("max.print") -- omitted 6275 rows ]
> dim(data) # Retourne le nombre de lignes et de colonnes
[1] 20560      7
> nrow(data) # Nombre de lignes
[1] 20560
> ncol(data) # Nombre de colonnes
[1] 7
> # Afficher les données dans une interface graphique
> View(data)
> # Visualisation des relations avec la variable 'Occupancy'
> library(ggplot2)
> # Temperature vs Occupancy
> library(ggplot2)
> # Creation du graphique avec regression logistique
> ggplot(data, aes(x = Temperature, y = Occupancy)) +
+   geom_point() + # Ajout des points de données
+   geom_smooth(method = "glm",
+               method.args = list(family = binomial), # Passer `family` via method.args
+               se = FALSE, color = "blue") + # Courbe de régression sans intervalle de confi
ance
+   labs(title = "Régression Logistique : Température vs Occupation",
+         x = "Température (°C)",
+         y = "Occupation (0 = Non occupé, 1 = Occupé)")
`geom_smooth()` using formula = 'y ~ x'
> # Humidity vs Occupancy
> # Création du graphique avec régression logistique
> ggplot(data, aes(x = Humidity, y = Occupancy)) +
+   geom_point() +
+   geom_smooth(method = "glm",
+               method.args = list(family = "binomial"),
+               se = FALSE, color = "blue") +
+   labs(title = "Régression Logistique : Humidité vs Occupation",
+         x = "Humidity (%)",
+         y = "Occupation (0 = Non occupé, 1 = Occupé)")
`geom_smooth()` using formula = 'y ~ x'
> # CO2 vs Occupancy
> # Creation du graphique avec regression logistique
> ggplot(data, aes(x = CO2, y = Occupancy)) +
+   geom_point() + # Ajouter les points de données
+   geom_smooth(method = "glm",
+               method.args = list(family = "binomial"), # Spécifier `family` via method.args
+               se = FALSE, color = "blue") + # Courbe de régression sans intervalle de confi
ance
+   labs(title = "Régression Logistique : CO2 vs Occupation",
+         x = "CO2 (ppm)",
+         y = "Occupation (0 = Non occupé, 1 = Occupé)")
`geom_smooth()` using formula = 'y ~ x'
> # Creation du modèle logistique pour prédire la probabilité d'occupation en fonction des aut
res variables
> # Créer le modèle de regression logistique
> model <- glm(Occupancy ~ Temperature + Humidity + Light + CO2 + HumidityRatio,
+             data = data_clean,
+             family = binomial)
Message d'avis :
glm.fit: des probabilités ont été ajustées numériquement à 0 ou 1
> # Suppression des lignes contenant des valeurs manquantes s'il y en a.
> data_clean <- na.omit(data)
> # Verifiez la structure de `data_clean`
> str(data_clean)
'data.frame': 20560 obs. of 7 variables:
 $ date : chr "2015-02-02 14:19:00" "2015-02-02 14:19:59" "2015-02-02 14:21:00" "2015
-02-02 14:22:00" ...
 $ Temperature : num 23.7 23.7 23.7 23.7 23.8 ...
 $ Humidity : num 26.3 26.3 26.2 26.1 26.2 ...
 $ Light : num 585 578 573 494 489 ...
 $ CO2 : num 749 760 770 775 779 ...

```

```
$ HumidityRatio: num 0.00476 0.00477 0.00477 0.00474 0.00477 ...
$ Occupancy : int 1 1 1 1 1 1 1 1 1 1 ...
> # Suppression des lignes où certaines colonnes spécifiques qui ont des valeurs manquantes
> data_clean <- data[complete.cases(data[, c("Temperature", "Humidity", "Light", "CO2", "HumidityRatio")]), ]
> # Modèle avec régression logistique
> model <- glm(Occupancy ~ Temperature + Humidity + Light + CO2 + HumidityRatio,
+             data = data_clean,
+             family = binomial)
Message d'avis :
glm.fit: des probabilités ont été ajustées numériquement à 0 ou 1
> # Resume du modele
> summary(model)
```

```
Call:
glm(formula = Occupancy ~ Temperature + Humidity + Light + CO2 +
    HumidityRatio, family = binomial, data = data_clean)
```

Coefficients:

	Estimate	Std. Error	z value	Pr(> z )	
(Intercept)	6.702e+01	1.174e+01	5.709	1.14e-08	***
Temperature	-3.721e+00	5.472e-01	-6.799	1.05e-11	***
Humidity	-1.644e+00	3.263e-01	-5.037	4.72e-07	***
Light	2.337e-02	5.608e-04	41.677	< 2e-16	***
CO2	3.547e-03	2.677e-04	13.251	< 2e-16	***
HumidityRatio	1.094e+04	2.057e+03	5.319	1.05e-07	***

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

(Dispersion parameter for binomial family taken to be 1)

```
Null deviance: 22226.2 on 20559 degrees of freedom
Residual deviance: 2173.3 on 20554 degrees of freedom
AIC: 2185.3
```

Number of Fisher Scoring iterations: 10

```
> # Installer et charger glmnet pour mieux expliquer le modele de LASSO
> install.packages("glmnet")
Installation du package dans 'C:/Users/PC/AppData/Local/R/win-library/4.4'
(car 'lib' n'est pas spécifié)
essai de l'URL 'https://cloud.r-project.org/bin/windows/contrib/4.4/glmnet_4.1-8.zip'
Content type 'application/zip' length 2448153 bytes (2.3 MB)
downloaded 2.3 MB
```

le package 'glmnet' a été décompressé et les sommes MD5 ont été vérifiées avec succès

Les packages binaires téléchargés sont dans

```
C:\Users\PC\AppData\Local\Temp\RtmpE7WGC5\downloaded_packages
```

```
> library(glmnet)
```

Le chargement a nécessité le package : Matrix

Loaded glmnet 4.1-8

```
> # Regression logistique avec regularisation L1 (lasso)
```

```
> model_lasso <- glmnet(x = as.matrix(data_clean[, c("Temperature", "Humidity", "Light", "CO2",
+             "HumidityRatio")]),
+                       y = data_clean$Occupancy,
+                       family = "binomial", alpha = 1)
```

```
> # Resume du modele
```

```
> summary(model_lasso)
```

	Length	Class	Mode
a0	87	-none-	numeric
beta	435	dgCMatrix	S4
df	87	-none-	numeric
dim	2	-none-	numeric
lambda	87	-none-	numeric
dev.ratio	87	-none-	numeric
nulldev	1	-none-	numeric
npasses	1	-none-	numeric
jerr	1	-none-	numeric
offset	1	-none-	logical
classnames	2	-none-	character
call	5	-none-	call
nobs	1	-none-	numeric

```
> # Supposons que vos donnees nettoyes sont dans 'data_clean'
```

```

> # Si vous avez des valeurs manquantes, vous pouvez les supprimer comme suit
> data_clean <- na.omit(data)
> # Ajuster le modele de regression logistique avec Lasso
> model_lasso <- glmnet(
+   x = as.matrix(data_clean[, c("Temperature", "Humidity", "Light", "CO2", "HumidityRatio")])
+   ,
+   y = data_clean$Occupancy,
+   family = "binomial", # Régression logistique (binomiale)
+   alpha = 1 # alpha = 1 pour Lasso (régularisation L1)
+ # Resume du modele
+ print(model_lasso)
Erreur : symbole inattendu dans :
"# Resume du modele
print"
> # Obtenir les coefficients du modèle
> coef(model_lasso)
6 x 87 sparse Matrix of class "dgCMatrix"
[[ suppressing 87 column names `s0`, `s1`, `s2` ... ]]

(Intercept) -1.202498 -1.3246886080 -1.442096967 -1.556535011 -1.668933846
Temperature . . . . .
Humidity . . . . .
Light . 0.0008671949 0.001607272 0.002271178 0.002884263
CO2 . . . . .
HumidityRatio . . . . .

(Intercept) -1.779852063 -1.889691216 -1.998752162 -2.107260741 -2.215388406
Temperature . . . . .
Humidity . . . . .
Light 0.003460892 0.004010053 0.004537644 0.005047645 0.005542824
CO2 . . . . .
HumidityRatio . . . . .

(Intercept) -2.323269120 -2.431012026 -2.538710277 -2.646446863 -2.754298289
Temperature . . . . .
Humidity . . . . .
Light 0.006025166 0.006496152 0.006956926 0.007408407 0.007851354
CO2 . . . . .
HumidityRatio . . . . .

(Intercept) -2.862336898 -2.97063194 -3.079250657 -3.18825847 -3.297719202
Temperature . . . . .
Humidity . . . . .
Light 0.008286414 0.00871415 0.009135064 0.00954961 0.009958207
CO2 . . . . .
HumidityRatio . . . . .

(Intercept) -3.40769511 -3.51824682 -3.62943425 -3.749433e+00 -3.9196430048
Temperature . . . . .
Humidity . . . . .
Light 0.01036124 0.01075909 0.01115209 1.152805e-02 0.0118249546
CO2 . . . . 1.452932e-05 0.0001173459
HumidityRatio . . . . .

(Intercept) -4.0902646515 -4.2614698486 -4.4333439681 -4.605928314
Temperature . . . . .
Humidity . . . . .
Light 0.0121196420 0.0124125721 0.0127039404 0.012993933
CO2 0.0002197407 0.0003218583 0.0004238245 0.000525707
HumidityRatio . . . . .

(Intercept) -4.7792500629 -4.9532410046 -5.1278455691 -5.3030086023
Temperature . . . . .
Humidity . . . . .
Light 0.0132828151 0.0135706258 0.0138575448 0.0141438179
CO2 0.0006275194 0.0007292403 0.0008308056 0.0009321204
HumidityRatio . . . . .

(Intercept) -5.478519163 -5.654240402 -5.829972886 -6.005601559 -6.180707266
Temperature . . . . .
Humidity . . . . .
Light 0.014429249 0.014713935 0.014997814 0.015281096 0.015563115
CO2 0.001033073 0.001133523 0.001233317 0.001332287 0.001430258
HumidityRatio . . . . .

```



```
(Intercept) -6.458669007 -6.761968515 -7.059173141 -6.647233250 -6.035184512
Temperature . . . -0.031157638 -0.070989427
Humidity 0.004843893 0.010926171 0.016778711 0.020137291 0.022738803
Light 0.015861267 0.016161449 0.016458931 0.016779287 0.017101950
CO2 0.001486363 0.001531195 0.001576871 0.001655719 0.001743948
HumidityRatio . . . . .
```

```
(Intercept) -5.443115045 -4.870709919 -4.317316783 -3.782482363 -3.271624278
Temperature -0.109738385 -0.147415323 -0.184041596 -0.219627929 -0.253777133
Humidity 0.025316024 0.027873971 0.030414032 0.032936499 0.035463402
Light 0.017417741 0.017726605 0.018028366 0.018322824 0.018601817
CO2 0.001831065 0.001916833 0.002001064 0.002083582 0.002163368
HumidityRatio . . . . .
```

```
(Intercept) -2.773180669 -2.29250196 -1.829792662 -1.384160334 -0.957182857
Temperature -0.287261991 -0.31971634 -0.351109238 -0.381537268 -0.410784309
Humidity 0.037942492 0.04039850 0.042828828 0.045235119 0.047602648
Light 0.018880301 0.01915135 0.019414286 0.019672106 0.019918498
CO2 0.002241954 0.00231842 0.002392613 0.002464642 0.002534044
HumidityRatio . . . . .
```

```
(Intercept) -0.54830698 -0.15743344 0.215500780 0.57060100 0.906380213
Temperature -0.43891918 -0.46593782 -0.491832015 -0.51659644 -0.540065505
Humidity 0.04993108 0.05221532 0.054450176 0.05663051 0.058740485
Light 0.02015596 0.02038454 0.020604110 0.02081460 0.021012293
CO2 0.00260090 0.00266517 0.002726816 0.00278581 0.002841813
HumidityRatio . . . . .
```

```
(Intercept) 1.22605859 1.528751136 1.814641443 2.084107824 2.337595338
Temperature -0.56254595 -0.583922526 -0.604193200 -0.623372931 -0.641482266
Humidity 0.06079554 0.062783290 0.064699428 0.066540859 0.068305181
Light 0.02120409 0.021387091 0.021561069 0.021726088 0.021882275
CO2 0.00289543 0.002946433 0.002994819 0.003040624 0.003083894
HumidityRatio . . . . .
```

```
(Intercept) 2.575597104 2.798646630 3.007310937 3.199717745 3.381072333
Temperature -0.658545860 -0.674591979 -0.689652068 -0.703537703 -0.716700188
Humidity 0.069990647 0.071596160 0.073121255 0.074547818 0.075910223
Light 0.022029797 0.022168851 0.022299661 0.022418486 0.022533091
CO2 0.003124687 0.003163068 0.003199111 0.003232437 0.003263982
HumidityRatio . . . . .
```

```
(Intercept) 3.550228711 3.706831420 3.910061409 5.988635323
Temperature -0.729017212 -0.740578395 -0.754062576 -0.853900132
Humidity 0.077196817 0.078313921 0.077334285 0.023079702
Light 0.022640836 0.022741386 0.022830183 0.022902174
CO2 0.003293509 0.003320965 0.003345482 0.003363117
HumidityRatio . 1.163410544 15.807592594 364.434309689
```

```
(Intercept) 6.979790098 7.112453928 7.256889819 7.382792384
Temperature -0.903280519 -0.912186433 -0.922182901 -0.930914603
Humidity . . . .
Light 0.022973087 0.023024270 0.023097814 0.023160524
CO2 0.003378767 0.003394858 0.003413197 0.003429453
HumidityRatio 517.706248200 524.390329952 531.436923104 537.745325470
```

```
(Intercept) 7.502230447 7.613200666 7.710804389 7.804461431
Temperature -0.939214565 -0.946938089 -0.953729691 -0.960248717
Humidity . . . .
Light 0.023221284 0.023278224 0.023326975 0.023374686
CO2 0.003444858 0.003459199 0.003471922 0.003484028
HumidityRatio 543.699821522 549.242043879 554.207493098 558.915277314
```

```
(Intercept) 7.885429823 7.956418606 8.036850991 8.098865098
Temperature -0.965908432 -0.970907733 -0.976455306 -0.980840292
Humidity . . . .
Light 0.023415498 0.023451750 0.023492395 0.023525198
CO2 0.003494747 0.003504432 0.003514346 0.003522823
HumidityRatio 563.099295423 566.861978670 570.759293189 574.029270348
```

```
(Intercept) 8.160843502 8.218734294 8.272250180
Temperature -0.985166142 -0.989208638 -0.992948586
Humidity . . .
```

```

Light          0.023557097    0.023587168    0.023615142
CO2            0.003530856    0.003538339    0.003545257
HumidityRatio 577.167617001 580.087172427 582.784529636
> # Evaluation du modele
> # Predictions sur les donnees
> predictions <- predict(model, type = "response")
> # Ajouter les predictions au jeu de donnees
> data_clean$predicted_occupancy <- ifelse(predictions > 0.5, 1, 0)
> # Visualiser les predictions
> table(data_clean$Occupancy, data_clean$predicted_occupancy)

      0      1
0 15604   206
1    23 4727
> # Calcul de la precision, sensibilite et specificite
> # Predictions sur les donnees
> predictions <- predict(model, type = "response")
> # Ameliorer le modele
> # Installer et charger le package 'rpart' pour les arbres de décision
> install.packages("rpart")
Installation du package dans 'C:/Users/PC/AppData/Local/R/win-library/4.4'
(car 'lib' n'est pas spécifié)
essai de l'URL 'https://cloud.r-project.org/bin/windows/contrib/4.4/rpart_4.1.23.zip'
Content type 'application/zip' length 716367 bytes (699 KB)
downloaded 699 KB

```

le package 'rpart' a été décompressé et les sommes MD5 ont été vérifiées avec succès  
Avis : impossible de supprimer l'installation précédente du package 'rpart'  
Avis : 'rpart' restauré

```

Les packages binaires téléchargés sont dans
      C:\Users\PC\AppData\Local\Temp\RtmpE7WGC5\downloaded_packages
Message d'avis :
Dans file.copy(savedcopy, lib, recursive = TRUE) :
  problème lors de la copie de C:\Users\PC\AppData\Local\R\win-library\4.4\00LOCK\rpart\libs\x
64\rpart.dll vers C:\Users\PC\AppData\Local\R\win-library\4.4\rpart\libs\x64\rpart.dll: Permi
ssion denied
> library(rpart)
> # Creer un modele d'arbre de decision
> tree_model <- rpart(Occupancy ~ Temperature + Humidity + Light + CO2 + HumidityRatio,
+                     data = data_clean, method = "class")
> # Resume de l'arbre de decision
> summary(tree_model)
Call:
rpart(formula = Occupancy ~ Temperature + Humidity + Light +
      CO2 + HumidityRatio, data = data_clean, method = "class")
n= 20560

```

	CP	nsplit	rel error	xerror	xstd
1	0.9538947	0	1.00000000	1.00000000	0.012723529
2	0.0100000	1	0.04610526	0.04631579	0.003105858

Variable importance	
Light	Temperature
55	22

CO2	HumidityRatio
19	4

```

Node number 1: 20560 observations,      complexity param=0.9538947
predicted class=0 expected loss=0.2310311 P(node) =1
class counts: 15810 4750
probabilities: 0.769 0.231
left son=2 (15643 obs) right son=3 (4917 obs)
Primary splits:

```

Light	< 388.1667	to the left,	improve=6882.4420, (0 missing)
Temperature	< 21.2075	to the left,	improve=2962.9250, (0 missing)
CO2	< 771.1667	to the left,	improve=2383.4690, (0 missing)
HumidityRatio	< 0.005617807	to the left,	improve= 423.0296, (0 missing)
Humidity	< 19.40625	to the left,	improve= 137.1891, (0 missing)

```

Surrogate splits:
Temperature < 21.29833 to the left, agree=0.857, adj=0.403, (0 split)
CO2 < 829.125 to the left, agree=0.843, adj=0.343, (0 split)
HumidityRatio < 0.005617807 to the left, agree=0.779, adj=0.075, (0 split)
Humidity < 38.60375 to the left, agree=0.762, adj=0.004, (0 split)

```

```

Node number 2: 15643 observations

```

```
predicted class=0 expected loss=0.001662085 P(node) =0.7608463  
class counts: 15617 26  
probabilities: 0.998 0.002
```

Node number 3: 4917 observations

```
predicted class=1 expected loss=0.03925158 P(node) =0.2391537  
class counts: 193 4724  
probabilities: 0.039 0.961
```

>