Facturación y trabajo de la minipyme THUNDERCATS S.A.



Integrantes

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1. Paradigmas

Y la importancia de la organización

Se atravesaron tres paradigmas

Con un objetivo común: realizar votación de los mejores modelos

TIERRA-1

Se puso el foco en la creación de variables. Se crearon cientos de ellas y se realizaron diversos experimentos.
Sin éxito.

TIERRA-2

Se vuelve a los datasets originales (sin variables creadas por nosotros). Se agregan predicciones de otros modelos como covariables. Se experimenta con los hiperparámetros. Éxito moderado.

TIERRA-3

Se combina lo estudiado en Tierra-1 y Tierra-2. Se corrige comportamiento anómalo en el dataset original. Se agregan predicciones de otros modelos como covariables. Éxito rotundo.

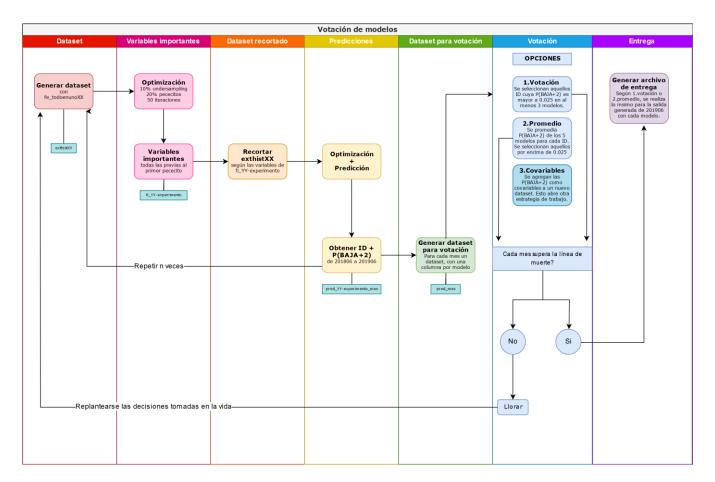


Diagrama de trabajo inicial

1. 1. Tierra-1

O cómo dejar volar la imaginación

Primeras 100 horas

Exploración 28 horas

Reuniones semanales durante las primeras 5 semanas para discutir el dataset y realizar las tareas. Se crean las cuentas en la nube y se realizan los experimentos sin objetivo fijo.

Variables nuevas 80 horas

Agrupación de conceptos:
Tarjetas
Préstamos y adelantos
Tipo de cliente
Tipo de operaciones
Rentabilidad al banco
Marketing

Algunos ejemplos de variables creadas

Conceptos unificados

```
fecantprest := rowSums( cbind( cprestamos_personales, cprestamos_prendarios, cprestamos_hipotecarios) , na.rm=TRUE

fettdeuda := rowSums( cbind( mv_tadelantosefectivo, mprestamos_personales) , na.rm=TRUE

fettahorro := rowSums( cbind( mcaja_ahorro_Paquete, mcaja_ahorro_Nopaquete) , na.rm=TRUE

fettpatrimonio := rowSums( cbind( fettahorro, fettdeuda) , na.rm=TRUE ) ]
```

Ratios

```
fm_endeudamiento:= mprestamos_personales / mv_mlimitecompra ]fm_pagominimo:= mv_mpagominimo / fettdeuda ]fm_comisionel:= mcomisiones / mrentabilidad ]fettdeuda_rango:= fettdeuda/(fettdeuda_max - fettdeuda_min) ]fettdeuda rango:= fettdeuda/(fettdeuda max - fettdeuda min) ]
```

Chiches

```
ECM_renta_avg := (mrentabilidad - mrentabilidad_avg)^2]

ECM_saldo_avg := (mcuentas_saldo - mcuentas_saldo_avg)^2]

ECM_sueldo_avg := (mplan_sueldo - mplan_sueldo_avg)^2]

ECM_ctactepaq_avg := (mcuenta_corriente_Paquete - mcuenta_corriente_Paquete_avg)^2]
```

Campeonato mundial de variables

"Que compitan ellas!"





1. 2. Tierra-2

O cómo volver a las bases

Se realizan experimentos de forma controlada comparando contra la línea de muerte

RECORTE DEL DATASET

Se conservan solo las variables que se ubican en importancia por encima del primer pajarito

COVARIABLES

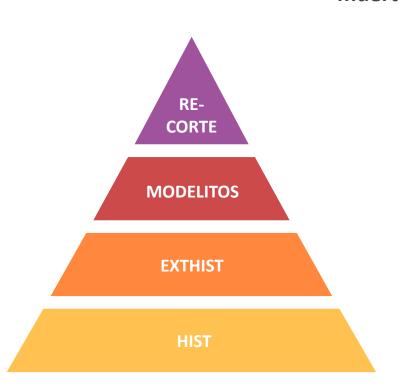
Se agregan como covariables las predicciones de otros modelos

VARIABLES NUEVAS + HISTÓRICAS

Nuevas variables (unificación de tarjetas) + ventana de regresión de 6 meses

VARIABLES HISTÓRICAS

Ventana de regresión de 6 meses



Se realizan experimentos de forma controlada comparando contra la línea de muerte

RECORTE DEL DATASET

Se conservan sólo las variables que se ubican en importancia por encima del primer pajarito

COVARIABLES

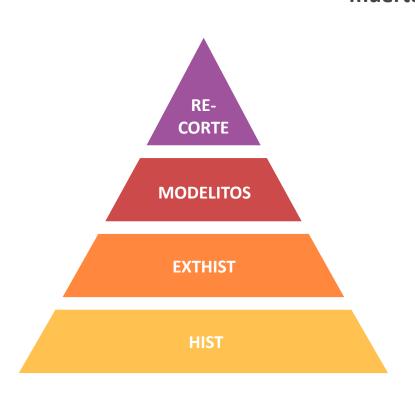
Se agregan como covariables las predicciones de otros modelos

VARIABLES NUEVAS + HISTORICAS

Nuevas variables (unificación de tarjetas) + ventana de regresión de 6 meses

VARIABLES HISTORICAS

Ventana de regresión de 6 meses



1. 3. Tierra-3

O cómo poner lo mejor de cada uno

Los 3 pilares de Tierra-3

Aplicando lo aprendido en Tierra-1 y Tierra-2

LIMPIEZA

Se quitan del dataset original las variables con valores constantes durante todo el período.
Se introducen NA en aquellas variables con comportamiento atípico (solo en el mes anómalo).

VARIABLES NUEVAS

Se agregan aquellas variables importantes para la clasificación.

COVARIABLES

Se agregan como covariables las predicciones de otros modelos (no necesariamente consistentemente exitosos).

Se generan nuevos datasets

seleccionando entre distintas combinaciones

EXTHIST + VARIABLES NUEVAS

- Dataset original
- Variables nuevas
- Variables históricas

EXTHIST LIMPIO + VARIABLES NUEVAS

- Dataset original limpio
- Variables nuevas
- Variables históricas

EXTHIST LIMPIO + CATEGORICAS

- Dataset original limpio
- Variables nuevas sólo categóricas
- Variables históricas

Ventana de regresión: 3, 6 y/ó 12 meses

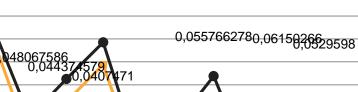
+ Probabilidades de otros modelos como covariables

Y todo fue bello

LDM vs mejor modelo

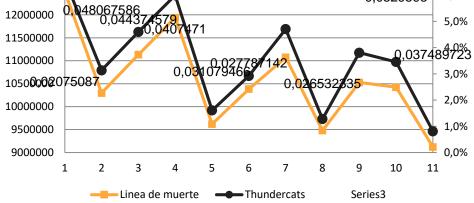
13000000

12500000



7,0%

6,0%



Se supera la línea de muerte entre **9 y 11** (de 11 meses) con diferencias **mayores a 200k** en Abril

3. Metodología final

O cómo dejar de sufrir

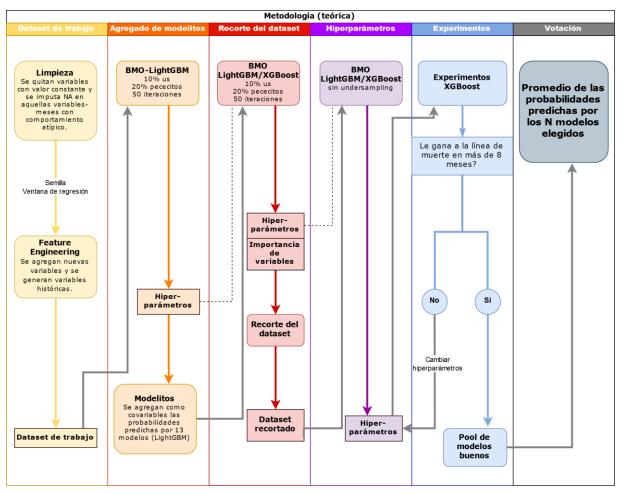


Diagrama de trabajo -teórico- final.

El último fin de semana



4. Modelos ganadores

O cómo votar bien

Primer ensamble Fede y Artur

	LINEA DE MUERTE	MODELO 1	MODELO 2	MODELO 3
DATASET	HIST	EXTHIST	EXTHIST LIMPIO (FE)	EXTHIST LIMPIO (FE)
VENTANA	6	3	3	6
VARIABLES	500+	2000+	1000+	900+
OPTIMIZACION		LGBM (SIN US)	LGBM (SIN US)	LGBM (10% US)
RECORTE		111	173	No
COVARIABLES		39 MODELITOS	13 MODELITOS	26 MODELITOS
PREDICCIÓN	XGBOOST	XGBOOST	XGBOOST	XGBOOST
PARÁMETROS	LDM	LDM	OPTIMIZADOS	OPTIMIZADOS

PROBABILIDAD DE CORTE: 0.027

Segundo ensamble *Maca*

	LINEA DE MUERTE	MODELO 1	MODELO 4	MODELO 3
DATASET	HIST	EXTHIST	EXTHIST (CAT)	EXTHIST LIMPIO (FE)
VENTANA	6	3	6 Y 12	6
VARIABLES	500+	2000+	1000+	900+
OPTIMIZACION		LGBM (SIN US)	No	LGBM (10% US)
RECORTE		111	122	No
COVARIABLES		39 MODELITOS	13 MODELITOS	26 MODELITOS
PREDICCIÓN	XGBOOST	XGBOOST	XGBOOST	XGBOOST
PARÁMETROS	LDM	LDM	LDM	OPTIMIZADOS

PROBABILIDAD DE CORTE: 0.025

5. Evaluación final

O cómo triunfar (?)

400+

experimentos

Tierra-1

20/11/2019 20 Longhorn crazy

21/11/2019 21 Wood

22/11/2019 22 Mound

T	Experimento	▼,	Código original	C	ódigo editado	V	Dataset	•	Undersampling	Pececitos	Quicir	Semi ▼ modelo	Algoritr
0	Linea de muerte		lineademuerte_UBA.r	-			paquete_premium_hist		No	No	GD	102191	XGBoost
01	<u>Argentine</u>		lineademuerte_UBA.r	0:	1-Argentine.r		paquete_premium_exthist		No	No	Biam!	102191	XGBoost
02	Banded Sugar		lightgbm_directo_wfv_hist.r	02	2-Banded-sugar.r		paquete_premium_exthist		10%	136 - 16%	Biam!	102191	LightGBM
03	Black Garden		lightgbm_directo_wfv_hist.r	03	3-Black-garden.r		paquete_premium_exthist		10%	160 - 19%	Artur	102191	LightGBM
04	<u>Bullet</u>		lightgbm_directo_wfv_hist.r	04	4-Bullet.r		paquete_premium_exthist01		10%	136 - 16%	Sofi	188317	LightGBM
05	<u>Carpenter</u>		lightgbm_directo_wfv_hist.r	05	5-Carpenter.r		paquete_premium_exthist03		10%	217 - 20%	Biam!	102191	LightGBM
06	<u>Electric</u>		lightgbm_directo_wfv_auto.r	06	6-Electric.r		paquete_premium_exthist03		10%	217 - 20%	Biam!	102191	LightGBM
07	False Honeypot		lightgbm_directo_wfv_baja.r	07	7-False-honeypot.r	r	paquete_premium_exthist04		10%	100 - %	Artur	102191	LightGBM
08	<u>Fire</u>		lightgbm_directo_wfv_hist.r	08	8-Fire.r		paquete_premium_exthist05		10%	136 - %	Sofi	188317	LightGBM
09	<u>Pavement</u>		lineademuerte_UBA.r				paquete_premium_exthist06		No	No	Fede	102191	XGBoost
10	Saint Valentine		lightgbm_directo_wfv_hist.r	10	0-saint-valentine.r	1	fi_exthist05		No	30 - 20%	Sofi	188317	LightGBM
11	<u>Pharaoh</u>		lightgbm_directo_wfv_hist.r	13	1-Pharaoh.r		paquete_premium_exthist08		10%	136 - 6%	Maca	661259	LightGBM
12	Red Harvester		lightgbm_directo_wfv_hist.r	12	2-Red-harvester.r		paquete_premium_exthist06		10%	136 - %	Fede	188317	LightGBM
13	Cocktail		lightgbm_directo_wfv_hist.r	13	3-Cocktail.r	1	fi_exthist08		10%	20%	Maca	661259	LightGBM
14	<u>Acrobat</u>		lightgbm_directo_wfv_hist.r	14	4-Acrobat.r	1	fi_exthist10		10%	136 - %	Fede	188317	LightGBM
15	Yellow Crazy		lightgbm_directo_wfv_hist.r	15	5-Yellow-crazy.r		paquete_premium_exthist09		10%	281 - 20%	Sofi	188317	LightGBM
16	Black Carpenter		lightgbm_directo_wfv_hist.r	15	5-black-carpenter.	.r	paquete_premium_exthist11		10%	281 - 20%	Biam!	102191	LightGBM
17	Dracula										Artur		LightGBM
18	Azteca										Artur		LightGBM
19	Goblin	T									Artur		LightGBM
	0 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17	Experimento O Linea de muerte O1 Argentine O2 Banded Sugar O3 Black Garden O4 Bullet O5 Carpenter O6 Electric O7 False Honeypot O8 Fire O9 Pavement 10 Saint Valentine 11 Pharaoh 12 Red Harvester 13 Cocktail 14 Acrobat 15 Yellow Crazy 16 Black Carpenter 17 Dracula 18 Azteca 19 Goblin	0 Linea de muerte 01 Argentine 02 Banded Sugar 03 Black Garden 04 Bullet 05 Carpenter 06 Electric 07 False Honeypot 08 Fire 09 Pavement 10 Saint Valentine 11 Pharaoh 12 Red Harvester 13 Cocktail 14 Acrobat 15 Yellow Crazy 16 Black Carpenter 17 Dracula 18 Azteca	O Linea de muerte lineademuerte_UBA.r O1 Argentine lineademuerte_UBA.r O2 Banded Sugar lightgbm_directo_wfv_hist.r O3 Black Garden lightgbm_directo_wfv_hist.r O4 Bullet lightgbm_directo_wfv_hist.r O5 Carpenter lightgbm_directo_wfv_auto.r O6 Electric lightgbm_directo_wfv_baja.r O7 False Honeypot lightgbm_directo_wfv_baja.r O8 Fire lightgbm_directo_wfv_hist.r O9 Pavement lineademuerte_UBA.r O1 Saint Valentine lightgbm_directo_wfv_hist.r O1 Pharaoh lightgbm_directo_wfv_hist.r O2 Red Harvester lightgbm_directo_wfv_hist.r O3 Lightgbm_directo_wfv_hist.r O4 Black Carpenter lightgbm_directo_wfv_hist.r O5 Carpenter lightgbm_directo_wfv_hist.r O6 Electric lightgbm_directo_wfv_hist.r O7 Is lightgbm_directo_wfv_hist.r O8 Pavement lightgbm_directo_wfv_hist.r O9 Pavement lightgbm_directo_wfv_hist.r	O Linea de muerte lineademuerte_UBA.r O1 Argentine lineademuerte_UBA.r O2 Banded Sugar lightgbm_directo_wfv_hist.r O3 Black Garden lightgbm_directo_wfv_hist.r O4 Bullet lightgbm_directo_wfv_hist.r O5 Carpenter lightgbm_directo_wfv_hist.r O6 Electric lightgbm_directo_wfv_auto.r O7 False Honeypot lightgbm_directo_wfv_hist.r O8 Fire lightgbm_directo_wfv_hist.r O9 Pavement lineademuerte_UBA.r O9 Pavement lightgbm_directo_wfv_hist.r O1 Saint Valentine lightgbm_directo_wfv_hist.r O1 Pharaoh lightgbm_directo_wfv_hist.r O2 Red Harvester lightgbm_directo_wfv_hist.r O3 Lightgbm_directo_wfv_hist.r O4 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O5-Carpenter.r O6-Electric.r O7 False-Honeypot.lightgbm_directo_wfv_baja.r O7-False-honeypot.lightgbm_directo_wfv_hist.r O8-Fire.r O9 Pavement O8-Fire.r O9 Pavement lightgbm_directo_wfv_hist.r O1-saint-valentine.r O1 Pharaoh lightgbm_directo_wfv_hist.r O1 D-saint-valentine.r O1 Pharaoh lightgbm_directo_wfv_hist.r O1 D-saint-valentine.r O2 Pavement lightgbm_directo_wfv_hist.r O3-Electric.r O7-False-honeypot.lightgbm_directo_wfv_hist.r O8-Fire.r O8-Fire.r O8-Fire.r O1 D-saint-valentine.r O2 D-saint-valentine.r O3 D-saint-valentine.r O3 D-saint-valentine.r O3 D-saint-valentine.r O4 D-saint-valentine.r O5 Carpenter O1 D-saint-valentine.r O2 D-saint-valentine.r O3 D-saint-valentine.r O4 D-saint-valentine.r O5 Carpenter O1 D-saint-valentine.r O2 D-saint-valentine.r O3 D-saint-valentine.r O3 D-saint-valentine.r O4 D-saint-valentine.r O5 Carpenter O6 Electric O6 Electric O6 Electric O6 Electric O6 Electric O7 D-saint-valentine.r O6 Electric O7 D-saint-valentine.r O7 D-saint-valentine.r O6 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Crazy lightgbm_directo_wfv_hist.r 15-Yellow-crazy.r paquete_premium_exthist09 16 Black Carpenter lightgbm_directo_wfv_hist.r 15-black-carpenter.r paquete_premium_exthist11	O Linea de muerte lineademuerte_UBA.r - paquete_premium_hist 01 Argentine lineademuerte_UBA.r 01-Argentine.r paquete_premium_exthist 02 Banded Sugar lightgbm_directo_wfv_hist.r 02-Banded-sugar.r paquete_premium_exthist 03 Black Garden lightgbm_directo_wfv_hist.r 03-Black-garden.r paquete_premium_exthist 04 Bullet lightgbm_directo_wfv_hist.r 04-Bullet.r paquete_premium_exthist 05 Carpenter lightgbm_directo_wfv_hist.r 05-Carpenter.r paquete_premium_exthist 06 Electric lightgbm_directo_wfv_auto.r 06-Electric.r paquete_premium_exthist 07 False Honeypot lightgbm_directo_wfv_bist.r 07-False-honeypot.r paquete_premium_exthist 08-Fire.r paquete_premium_exthist 09 Pavement lineademuerte_UBA.r paquete_premium_exthist 05 Saint Valentine lightgbm_directo_wfv_hist.r 10-saint-valentine.r fi_exthist 10 Saint Valentine 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10% 9 Pavement lineademuerte_UBA.r paquete_premium_exthist06 No 10 Saint Valentine lightgbm_directo_wfv_hist.r 10-saint-valentine.r fi_exthist05 No 11 Pharaoh lightgbm_directo_wfv_hist.r 11-Pharaoh.r paquete_premium_exthist08 10% 12 Red Harvester lightgbm_directo_wfv_hist.r 12-Red-harvester.r paquete_premium_exthist06 10% 13 Cocktail lightgbm_directo_wfv_hist.r 13-Cocktail.r fi_exthist08 10% 14 Acrobat lightgbm_directo_wfv_hist.r 15-Yellow-crazy.r paquete_premium_exthist09 10% 15 Yellow Crazy lightgbm_directo_wfv_hist.r 15-Yellow-crazy.r paquete_premium_exthist09 10% 18 Balck Carpenter lightgbm_directo_wfv_hist.r 15-black-carpenter.r paquete_premium_exthist11 10%	O Linea de muerte lineademuerte_UBA.r - paquete_premium_hist No	O Linea de muerte lineademuerte_UBA.r - paquete_premium_exthist No No Biam! 20 Banded Sugar lightgbm_directo_wfv_hist.r O2-Banded-sugar.r paquete_premium_exthist 10% 136 - 16% Biam! 31 Black Garden lightgbm_directo_wfv_hist.r O3-Black-garden.r 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Maca 51 Red Harvester lightgbm_directo_wfv_hist.r 12-Red-harvester.r paquete_premium_exthist 06 10% 136 - % Fede 51 Carcotail lightgbm_directo_wfv_hist.r 13-Cocktail.r fi_exthist 08 10% 20% Maca 51 Yellow Crazy lightgbm_directo_wfv_hist.r 15-Yellow-crazy.r paquete_premium_exthist 10 10% 281 - 20% Sofi 51 Black Carpenter lightgbm_directo_wfv_hist.r 15-black-carpenter.r paquete_premium_exthist 11 10% 281 - 20% Biam!	Linea de muerte lineademuerte_UBA.r - paquete_premium_hist No No GD 102191 1 Argentine lineademuerte_UBA.r 01-Argentine.r paquete_premium_exthist No No No Biam! 102191 20 Banded Sugar lightgbm_directo_wfv_hist.r 02-Banded-sugar.r paquete_premium_exthist 10% 136 - 16% Biam! 102191 30 Black Garden lightgbm_directo_wfv_hist.r 03-Black-garden.r paquete_premium_exthist 10% 160 - 19% Artur 102191 40 Bullet lightgbm_directo_wfv_hist.r 04-Bullet.r paquete_premium_exthist01 10% 136 - 16% Sofi 188317 50 Carpenter lightgbm_directo_wfv_hist.r 05-Carpenter.r paquete_premium_exthist03 10% 217 - 20% Biam! 102191 51 Electric lightgbm_directo_wfv_auto.r 06-Electric.r paquete_premium_exthist03 10% 217 - 20% Biam! 102191 52 Fire lightgbm_directo_wfv_hist.r 08-Fire.r paquete_premium_exthist04 10% 100 - % Artur 102191 53 Fire lightgbm_directo_wfv_hist.r 08-Fire.r paquete_premium_exthist05 10% 136 - % Sofi 188317 54 Pavement lineademuerte_UBA.r paquete_premium_exthist05 10% 136 - % Sofi 188317 55 Pavement lightgbm_directo_wfv_hist.r 10-saint-valentine.r fi_exthist05 No No 30 - 20% Sofi 188317 56 Path Arcobat lightgbm_directo_wfv_hist.r 12-Red-harvester.r paquete_premium_exthist08 10% 136 - % Fede 188317 56 Carpenter lightgbm_directo_wfv_hist.r 13-Cocktail.r fi_exthist08 10% 136 - % Fede 188317 57 Parcola lightgbm_directo_wfv_hist.r 15-Yellow-crazy.r paquete_premium_exthist09 10% 281 - 20% Sofi 188317 58 Dracula 57 Dracula 58 Azteca

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Biam! 102191 LightGBM

Sofi

102191 XGBoost

102192 XGBoost

20-longhorn-crazy.r

21-Wood.r

22-Mound.r

lightgbm_directo_wfv_hist.r

xgboost_SOFI_revisadoGD.R

xgboost_directo_wfv.r

Tierra-1

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Tierra-2

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22/11/2019 03 Brazillian whitekneet. Biam! LDM us 10% Ineademuerte_UBA_todos.r paquete_premium_hist 10% - 1E+05 XGBoost 0.204 10 0.000 1.000 0.000 1.000 6 0.0	0.040 300 0.600
22/11/2013 04 American grass s. Sofi LDM semilla Tineademuerte_UBA_todos.r paquete_premium_hist No XGBoost 0.025 10 0.000 1.000 0.000 1.000 6 0.0	0.040 300 0.600
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26/11/2019 25 Diving bell s. Bism! LDM Hiperparametros lineademuerte_UBA_todos.r paquete_premium_exthist_modelitosxval No - 1E+05 XGBoost 0.025 15 12.343 40.022 7.736 22.165 6 0.	0.148 105 0.492
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26/11/2013 27 Peruvian pinktoe t. Biam! LDM Dataset lineademuerte_UBA_r lineademuerte_UBA_todos.r pomelitos_cov1 No - 1E+05 XGBoost 0.025 15 12.343 40.022 7.738 22.165 6 0.	0.148 105 0.492
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22/11/2013	04	
23/11/2019	05	Turret s.

10 Texas brown t

15 European garden o.

16 Marbled o.

18 Texas recluse s

19 Sixspotted o.

25 Diving bell s.

26 Sydney funnelweb s.

17 Lattice o.

25/11/2019 20 Silver Garden o

25/11/2019 21 Yellow Garden o.

25/11/2019 22 Florida garden o.

25/11/2019 23 Banded garden

26/11/2019 27 Peruvian pinktoe t.

26/11/2019 28 Equatorian purple t

24/11/2019 31 California trapdoor s.

27/11/2019 33 Costa Rican red t

27/11/2019 34 Mexican redleg t

27/11/2019 37 Mexican fireleg t

27/11/2019 39 Yucatan rustrump t

27/11/2019 38 Mexican pink t.

27/11/2019 35 Mexican flameknee t.

27/11/2019 36 Mexican orangebeautu t

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22/11/2019 22 Mound

25/11/2019 24 Dewdrop s.

26/11/2019 29 Pinktoe t.

24/11/2019 30 Bark crab s.

24/11/2019 | 11 | Rio Grande gold t.

24/11/2019 12 Costa Rican zebra t

24/11/2019 13 Angulate o

24/11/2019 14 Barn s.

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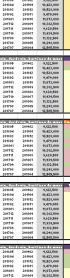
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Oak processionary m.

American dagger m

15 Tea tussock m.

18 Luna m.

Silkworm m.

19 Southern flannel m

21 Black Hairstreak b.

20 Adonis blue b

02/12/2019 T3-4 04 LGBM importancia

22 Brimstone b.

23 Brown angurb.

24 Mourning cloak b.

25 Chalkhill blue b.

27/11/2019 33 Costa Rican red t.

27/11/2019 34 Mexican redleg t.

27/11/2019 37 Mexican fireleg t

27/11/2019 39 Yucatan rustrump t

27/11/2019 38 Mexican pink t.

27/11/2019 35 Mexican flameknee t.

27/11/2019 36 Mexican orangebeauty t.

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Fech. Experimento Tip	pc ·	Obs.			Cóc	digo origin	al		C	ódigo edit	tado 📑	3		Dataset			Variab.	U U	cec	Ser v	Algo	ritu. 🔨 Pe	corte					etros XGBoos		
22/11/2019 04 American grass s	Sofi :	201901	201802	201811	9,479,000	9,434,000	-45,000	201802	201811	9,568,000	89,000	201802	201811	9,406,000	-73,000	201802	201811	9,148,500	-330,500	201802	201811	9,466,500	-12,500	201802	201811	9,388,500	-10,500	1.000	. 6	0.040
	Biam!	201903 201902	201804	201901	10,423,000	10,722,000	299,000	201804	201901	10,836,500	413,500 298,500	201804	201901	10,061,000	-362,000 54,500	201804	201901	10,605,000	182,000	201804	201901	10,453,500	30,500 -143,000	201804	201901	10,601,500	178,500 199,500	1.000	6	0.040
		201904	201805	201902	9,122,500	9,107,000	-15,500	201805	201902	9,142,500	20,000	201805	201902	8,753,000	-369,500	201805		9,030,000	-92,500	201805	201902	9,022,500	-100,000	201805	201902	8,836,000	-286,500	1.000	6	0.040
	Biam!					12	2016			13 Angulate	D14			14	D24			15	D14			16 Harbled	814		rain bart	17 Lettice	Dif	1.000	6	0.040
	Diam:	201806	201707	201804				201707		12,563,500	58,000	201705	201804	12,030,000	-475,500	201707		12,635,000	129,500				-12,505,500	201707	201804	12,417,500	-88,000	1.000		0.040
		201808	201709	201806	11,132,500			201709	201806	11,166,500	34,000	201707	201806	10,959,000	-173,500 50.000	201709	201106	11,186,500	54,000				-11,132,500	201709	201806	11,336,500	204,000 -82,000			
- O Linea de muerte	CD 3	201809	201710	201807	11,939,500			201710	201807	11,931,500	-8,000	201708	201807	11,889,500	-59,000	201710	201107	11,961,000	21,500				-11,939,500	201710	201807	11,886,500	-53,000	1.000	4	0.040
recut Experimento d		201811	201712	201809	10,382,500			201712	201809	10,392,000 9,547,500	9,500	201710	201809	10,223,500	-159,000 -220,000	201712	201109	10,350,500 9,403,500	-32,000 -217,000				-10,382,500 -9,620,500	201712	201809	10,302,500 9,500,500	-89,000 -120,000	n child weigln:	ar dent	l eta u
Fech: Experimento Q		201812	201801	201810	11,073,000			201801	201810	11,185,500	112,500	201711	201810	11,248,000	175,000	201801	201810	11,217,000	144,000				-11,073,000	201801	201810	11,419,500	346,500	rámetros XGB	oost	
		201901	201003	201012	9,479,000			201802	201012	9,470,500	-0,500	201712	201012	9,373,500	-105,500	201103	201012	9,372,000	-107,000				-9,479,000	201802	201012	9,499,000	20,000			adala
Fecha — I— Experimen	nto	201903	201804	201901	10,423,000	10,556,500	133,500	201804	201901	10,505,000	82,000	201802	201901	10,410,000	-5,000	201104	201901	10,375,500	-47,500				-10,423,000	201804	201901	10,703,000	200,000 156,500	: Quie		
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	7	Titodi z	nin days	rain book	income de la come	Texar tan	Dif	rain das	drain bart	Colifornia orașe	a Dif	rain dard	Irain bart	Parart Bland	Dif	rain dar	drain bart	California about	Dif	rain der	drain bart	Taxar braus	Dif	rain dare	rain bart	Rin grande gold	Dif		-	
		201806	201707	201804	12,505,500	12,505,500	0	201707	201804	12,430,500	-75,000	201707	201804	12,413,000	-22,500	201707	201104	11,915,500	-590,000	201707	201804	12,542,000	36,500	201707	201804	12,259,000	-236,500			
	2	201807	201708	201805	10,298,000	10,298,000	0	201768	201805	10,034,500	-263,500	201708	201805	10,286,500	-11,500	201708	201005	10,169,000	-129,000	201708	201805	10,175,500	-122,500	201708	201805	10,251,500	-46,500			
			201710	201806	11,132,500	11,132,500	ů	201709		11,188,000	55,500	201710	201806	11,169,000	36,500	201709		11,110,000	-14,500	201710	201806	11,150,000	17,500	201710	201806	11,276,000	143,500			
		201809	201710	201807	11,939,500	11.939.500		201710	201807	12.046.500	-239,900	201711	201000	11,864,000	719,000	201710	201107	11,846,000	-269,900	201111	201000	12,037,500	98,000	201710	201307	11,934,500	-5.000			

10,402,000 10,454,000 9,421,000 11,106,000 10,300,500

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- 0	Tarantula	Biam!	201806	201707	201009	12,505,500			201707	201005	10,551,000	53,000	201706	201005	12 020 000	-47E E00	201707	201105	12,435,000	124,500				-12 505 500	201707	201804	10,216,	500	-22,000	1.000
- 01	Brown Recluse's.	Biam!	27.111				12				13	,			14				15	,		16					17			1.000
02	Starbellied o.	Biam!	201904	201205	201902	9,122,500	Carte Rices Zebr 9.107.000	45 500	rein_deré	201902	Anguleto 9.142.500	Dif 20.000	201205	201902	8-rs 2.753.000	Dif re	201105	rein_bert E-	9,020,000	n Dif	rein_dere		Herbled 9.022.500	Dif	Page der	201902	8,036,		Dif	1.000
03	Brazilian whiteknee t.	Biam!	201903	201804	201901	10,423,000	10,722,000	299,000	201804	201901	10,836,500	413,500	201804	201901	10,061,000	-362,000	201804	201901	10,605,000	182,000	201804	201901	10,453,500	30,500	201804	201901	10,601,	500	178,500	1.000
	American grass s.	Sofi	201902 201901	201803 201802	201812	9,479,000	10,694,500 9,434,000	166,500 -45,000	201803 201802	201812	10,826,500 9,568,000	293,500	201803 201802	201812	10,502,500	54,500 -73,000	201803	201812	10,523,500 9,148,500	-4,500 -330,500	201803 201802	201012	10,385,000 9,466,500	-143,000 -12,500	201803 201802	201812	9,388,	,500 500	199,500	1.000
		- ×	Obs.			~				۰.,									U w		Ses -								Parámet	ros XGBoost
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0	Linea de muerte	LDM	-		lineaden	nuerte_UE	BA.r			-			pagu	ete_prer	nium_hist				No	-	1E+05	XGBoos	t 0.0	025	10	0.000	1.000	0.000	1	6
		LDM LGB-BMO	BM0				BA.r 1BO_meses_	undersa	mpling.	02_BN	10-LGBM.r			ete_prer xthist-si					No 10%	20%	1E+05	XGBoos LightGBN		025 204	10		1.000		5	6 19
T3-2			BM0 Datase) [lightgbr		1BO_meses_	undersa	mpling.		10-LGBM.r muerte_UB.		PP_0	xthist-si	nΝΑ					20%			VI 0.2			9.067	####		5	6 19 6
T3-2	: 02_BMO-LGBM	LGB-BMO		et I	lightgbr lineader	n_tune_M	1BO_meses_ BA.r	undersa	mpling.ı	lineader	muerte_UB	A_todo:	pp_0	xthist-si xthist-si	nΝΑ	s1		186	10%	20%	1E+05	LightGBN	VI 0.2	204	12	9.067	1.000	0.103 0.000	5	6 19 6 6
T3-2 01 02	Pine processionary	LGB-BMO LDM	Datase	et I	lightgbr lineaderr lineaderr	n_tune_IV nuerte_UE	1BO_meses_ BA.r BA.r	undersa,	mpling.ı	lineader lineader	muerte_UB. muerte_UB.	A_todo: A_todo:	pp_0 p_p_0 p_p_0	xthist-si xthist-si xthist-si	nNA nNA			186 186	10% No	20%	1E+05 1E+05	LightGBN XGBoos	M 0.2 et 0.0 et 0.0	204 025	12	9.067 0.000	#### 1.000 1.000	0.103 0.000 0.000	5 1 1	6 19 6 6 6
01 02 03	: 02_BMO-LGBM Pine processionary Gardon tigorm.	LGB-BMO LDM LDM	Datase Datase	et I et I et I	lightgbr lineader lineader lineader	n_tune_IV nuerte_UE nuerte_UE	180_meses_ 3A.r 3A.r 3A.r	undersa,	mpling.	lineader lineader lineader	muerte_UB. muerte_UB. muerte_UB.	A_todo: A_todo: A_todo:	pp_0 2.1 pp_0 2.1 pp_0 2.1 pp_0	xthist-si xthist-si xthist-si xthist-si	nNA nNA nNA_modelite	s1			10% No No	20%	1E+05 1E+05 6E+05	LightGBN XGBoos XGBoos	VI 0.2 et 0.0 et 0.0	204 025 025	12 10 10	9.067 0.000 0.000 0.000	1.000 1.000 1.000	0.103 0.000 0.000	5 1 1	6 19 6 6 6
01 02 03 04	02_BMO-LGBM Pine processionary Garden tiger m. Swallowtail b.	LGB-BMO LDM LDM LDM	Datase Datase Datase	et I et I et I	lightgbr lineader lineader lineader lineader	n_tune_IV nuerte_UE nuerte_UE nuerte_UE	1BO_meses_ BA.r BA.r BA.r BA.r	undersa	mpling.ı	lineader lineader lineader lineader	muerte_UB. muerte_UB. muerte_UB. muerte_UB.	A_todo: A_todo: A_todo: A_todo:	pp_0 2.1 pp_0 2.1 pp_0 2.1 pp_0 2.1 pp_0	xthist-si xthist-si xthist-si xthist-si xthist-si	nNA nNA nNA_modelite nNA_modelite	s1 s2		186	10% No No No	20%	1E+05 1E+05 6E+05 1E+05	LightGBN XGBoos XGBoos XGBoos	VI 0.2 et 0.0 et 0.0 et 0.0	204 025 025 025	12 10 10 10	9.067 0.000 0.000 0.000 0.000	1.000 1.000 1.000 1.000	0.103 0.000 0.000 0.000	5 1 1 1	6 19 6 6 6 6

201808	201709	201806	11,132,500	l .		201709	201806	11,166,500	34,000	201707	201806	10,959,000	-173,500	201709	201006	11,186,500	54,000				-11,132,500	201709	201806	11,336,5	00 2/	14,000
201807	201708	201805	10,298,000	l .		201708	201805	10,331,000	33,000	201706	201805	10,357,000	59,000	201708	201105	10,484,500	186,500				-10,298,000	201708	201805	10,216,0	00 -5	2,000
201806	201707	201804	12,505,500			201707	201804	12,563,500	50,000	201705	201804	12,030,000	-475,500	201707	201004	12,635,000	129,500				-12,505,500	201707	201804	12,417,5	100 -8	10,000
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201904	201805	201902	9,122,500	9,107,000	-15,500	201805	201902	9,142,500	20,000	201805	201902	8,753,000	-369,500		201902	9,020,000	-92,500	201805	201902	9,022,500	-100,000	201805	201902	8,836,0		26,500
201903	201804	201901	10,423,000	10,722,000	299,000	201804	201901	10,836,500	413,500	201804	201901	10,061,000	-362,000	201804	201901	10,605,000	182,000	201804	201901	10,453,500	30,500	201804	201901	10,601,5		18,500
201902	201803	201812	10,528,000	10,694,500	166,500	201803	201812	10,826,500	298,500	201803	201812	10,582,500	54,500	201803	201812	10,523,500	-4,500	201803	201812	10,385,000	-143,000	201803	201812	10,727,5		9,500
201901	201802	201811	9,479,000	9,434,000	-45,000	201802	201811	9,568,000	89,000	201802	201811	9,406,000	-73,000	201802	201811	9,148,500	-330,500	201802	201811	9,466,500	-12,500	201802	201811	9,388,5	30 -+	10,500
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BMC	1	lightgb	om_tunc_f	MBO_meses_	undersa	mpling.	r 02_BN	ио-LGBM.r.		PP_0	xthist-s	inNA				10%	20%	1E+05	LightGE	3M	0.204	12	9.067	####	0.103	5
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201808	201709	201806	11,132,500	l		201709	201806	11,166,500	34,000	201707	201806	10,959,000	-173,500	201709	201806	11,186,500	54,000			-11,1	32,500	201709	201306	11,336,5	00	204,000	1.0
201807	201708	201805	10,298,000	l		201708	201805	10,331,000	33,000	201706	201805	10,357,000	59,000	201708	201105	10,484,500	186,500			-10,2		201708	201805	10,216,0		-82,000	1
201806	201707	201804	12,505,500			201707	201804	12,563,500	50,000	201705	201804	12,030,000	-475,500	201707	201104	12,635,000	129,500			-12,5	05,500	201707	201304	12,417,5	00	-88,000	
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201904	201805	201902	9,122,500	9,107,000		201805	201902	9,142,500	20,000	201805	201902	8,753,000	-369,500	201105	201902	9,020,000	-92,500	201805			0,000	201805	201902	8,836,01		-286,500	l.
201903	201804	201901	10,423,000	10,722,000	299,000	201804	201901	10,836,500	413,500	201804	201901	10,061,000	-362,000	201804	201901	10,605,000	182,000	201804			500	201804	201901	10,601,5		178,500	1
201902	201803	201812	10,528,000	10,694,500	166,500	201803	201812	10,826,500	298,500	201803	201812	10,592,500	54,500	201803	201812	10,523,500	-4,500	201803			3,000	201803	201812	10,727,9		199,500	
201901	201802	201811	9,479,000	9,434,000	-45,000	201802	201811	9,568,000	89,000	201802	201811	9,406,000	-73,000	201802	201811	9,148,500	-330,500		201811 9	466,500 -13	500	201802	201811	9,388,5	00	-90,500	1.
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BMC	t	lightgb: lineader	muerte_UI m_tune_N	BA.r MBO_meses_i BA.r		pling.r	r 02_Bř lineado	ИО-LGBM.r muerte_UBA	∟todos	pp_e	xthist-s xthist-s	mium_hist inNA	tos1		Variab 186	No 10%	20%	1E+05 1E+05	XGBoost LightGBM	0.025 0.204 0.025	re	10 12	0.000 9.067	1.000	0.000 0.103 0.000	in chil	
BM0 Datase	e e	lightgbi lineader lineader	muerte_UI m_tune_N muerte_UI	BA.r VBO_meses_r BA.r BA.r		pling.r	r 02_Bf lineado lineado	MO-LGBM.r muerte_UBA muerte_UBA	_todos _todos	pp_c pp_c	xthist-s xthist-s xthist-s	:mium_hist :inNA :inNA			Variab	No 10% No	20%	1E+05 1E+05 1E+05	XGBoost LightGBM XGBoost	0.025 0.204 0.025	re	10 12 10	0.000 9.067 0.000	1.000 #### 1.000 1.000	0.000 0.103 0.000	in chil	

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-11,939,50 -11,132,50 -10,298,00 201710

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0	Linea de muerte	LDM		lineademuerte_UBA.r	-	paquete_premium_hist		No	-	1E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	300
F3-2	02_BMO-LGBM	LGB-BMO	BMO	lightgbm_tune_MBO_meses_undersampling.r	02_BMO-LGBM.r	pp_exthist-sinNA		10%	20%	1E+05	LightGBM	0.204	12	9.067	####	0.103	5	19	0.176	46
01	Pine processionary	LDM	Dataset	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	pp_exthist-sinNA		No	-	1E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	300
02	Gardon tigor m.	LDM	Dataset	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	pp_exthist-sinNA_modelitos1	186	No		6E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	300
03	Swallowtail b.	LDM	Dataset	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	pp_exthist-sinNA_modelitos1	186	No	-	1E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	300
04	Cabbage white b.	LDM	Dataset	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	pp_exthist-sinNA_modelitos2	199	No		1E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	300
05	Comma b.	LDM	Dataset	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	pp_exthist-sinNA_modelitos2	199	No	-	6E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	300
06	Peacock b.	LGB-BMO	BMO	lightgbm_tune_MBO_meses_undersampling.r		pp_exthist-sinNA_modelitos1	186	10%	20%	6E+05	LightGBM	0.204	10	8.405	6.745	2.376	94	7	0.108	67
	Elephant Hawk m.			lineademuerte_UBA.r		pp_exthist-sinNA_modelitos1	186	No	-	6E+05	XGBoost	0.025	10	8.405	6.745	2.376	94	7	0.108	300
08	Small emperor m.	LDM	Hiperparámetros	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	pp_exthist-sinNA_modelitos1	186	No	-	6E+05	XGBoost	0.025	10	8.405	6.745	2.376	94	7	0.108	300
09	Largo bluo b.	LDM	Hiperparámetros	lineademuerte_UBA.r		pp_exthist-sinNA_modelitos1	186	No	-	6E+05	XGBoost	0.025	10	8.405	6.745	2.376	94	7	0.108	300
	Monarch b.					pp_exthist-sinNA_modelitos1	186	No	-	6E+05	XGBoost	0.025	10	8.405	6.745	2.376	94	7	###	300
11	Isabella tiger m.					rfi-pp_exthist-sinNA_modelitos1	16	No	-	6E+05	XGBoost	0.025	10	0.000	1.000 0	0.000	1	6	###	
12	Gost m.	LDM	Hiperparámetros	lineademuerte_UBA.r	lineademuerte_UBA_todos.i	fi-pp_exthist-sinNA_modelitos1	16	No		6E+05	XGBoost	0.025	10	8.405	6.745	2.376	94	7	0.108	300

pp_exthist-sinNA_modelitos1

pp_exthist-sinNA_modelitos5

lineademuerte_UBA_todos.rpp_exthist-sinNA_modelitos3

lineademuerte_UBA_todos.i pp_exthist-sinNA_modelitos4

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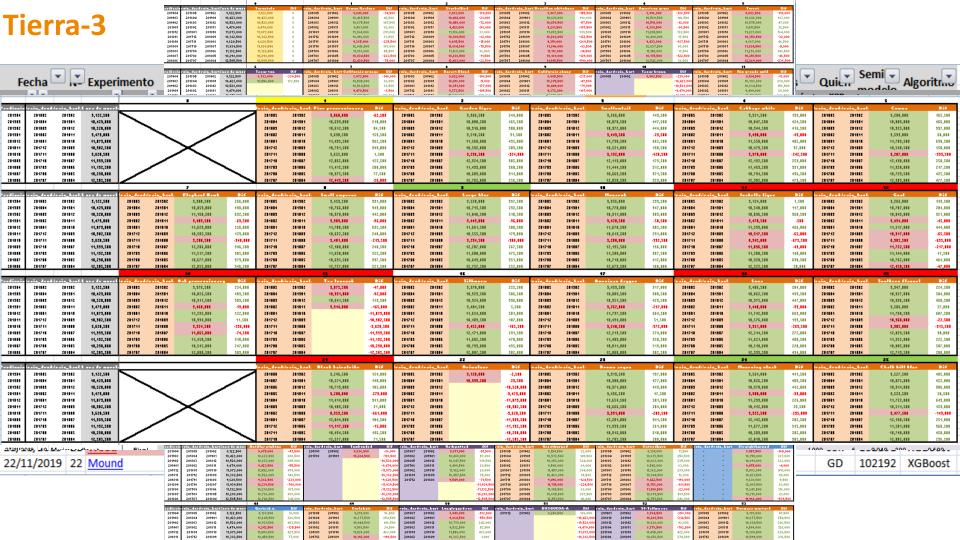
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201801 201712 201819 **5**Personas **colaborando**

9 Cuentas de Google Cloud

1000
Horas hombre

2760 USD

Gastados en procesamiento

2 de 3 ensambles

en el podic

"Retreat...? ThunderCats never retreat!"

– Lion-O

Gracias!

