

EDA - Credit Fraud

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Analítica Predictiva

29/03/2023

TBA

AGENDA

↑ Limpieza de Datos

02 Exploración

03 Corrplot

04 Conclusiones



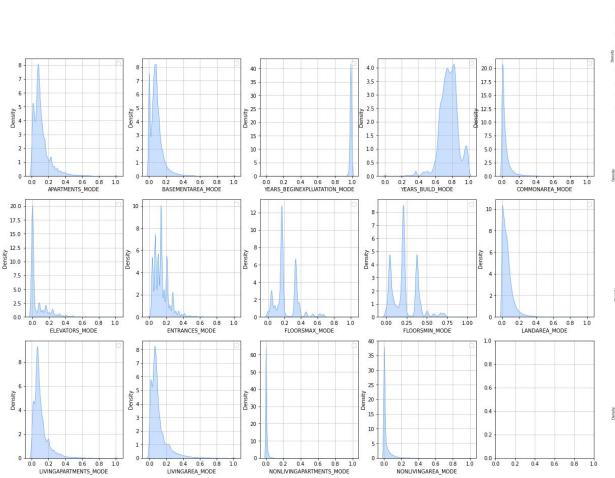
Base: "Credit Card Fraud Detection"

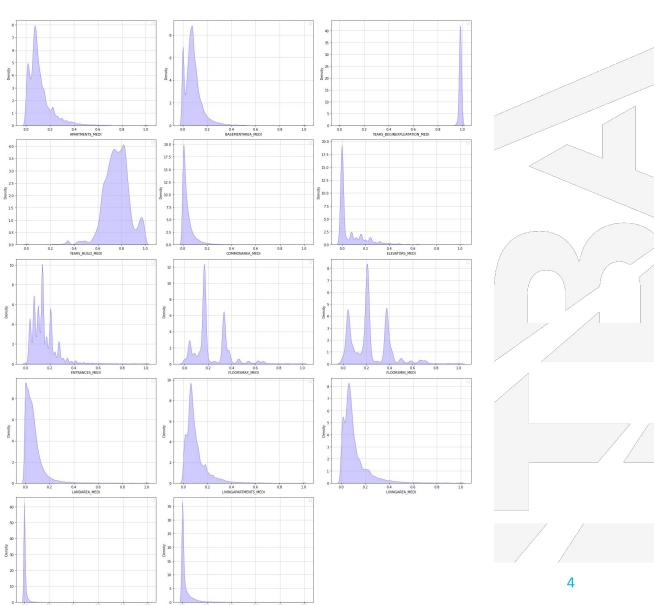
- 307511 registros
- 122 columnas
- dtypes: float64(65), int64(41), object(16)

Se busca poder identificar a partir de variables categóricas y numéricas si un cliente se atrasa con los pagos de sus cuotas a la hora de tomar un préstamo



1. Variables normalizadas







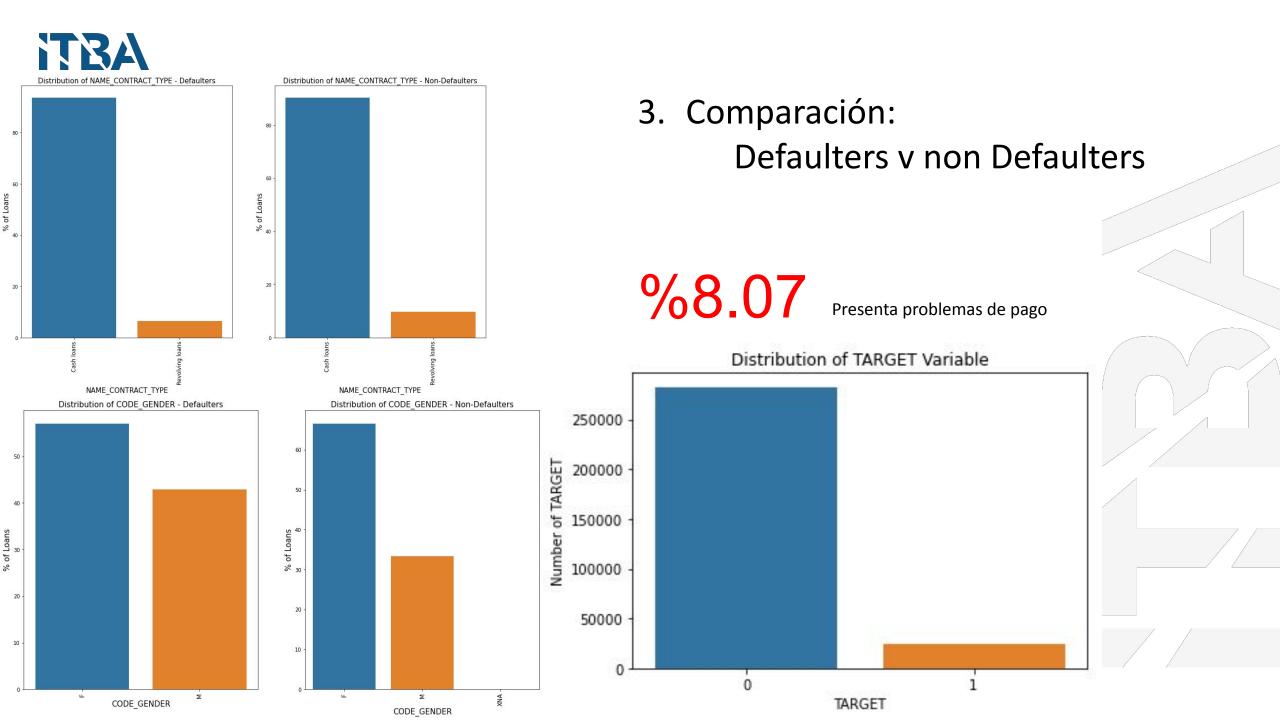




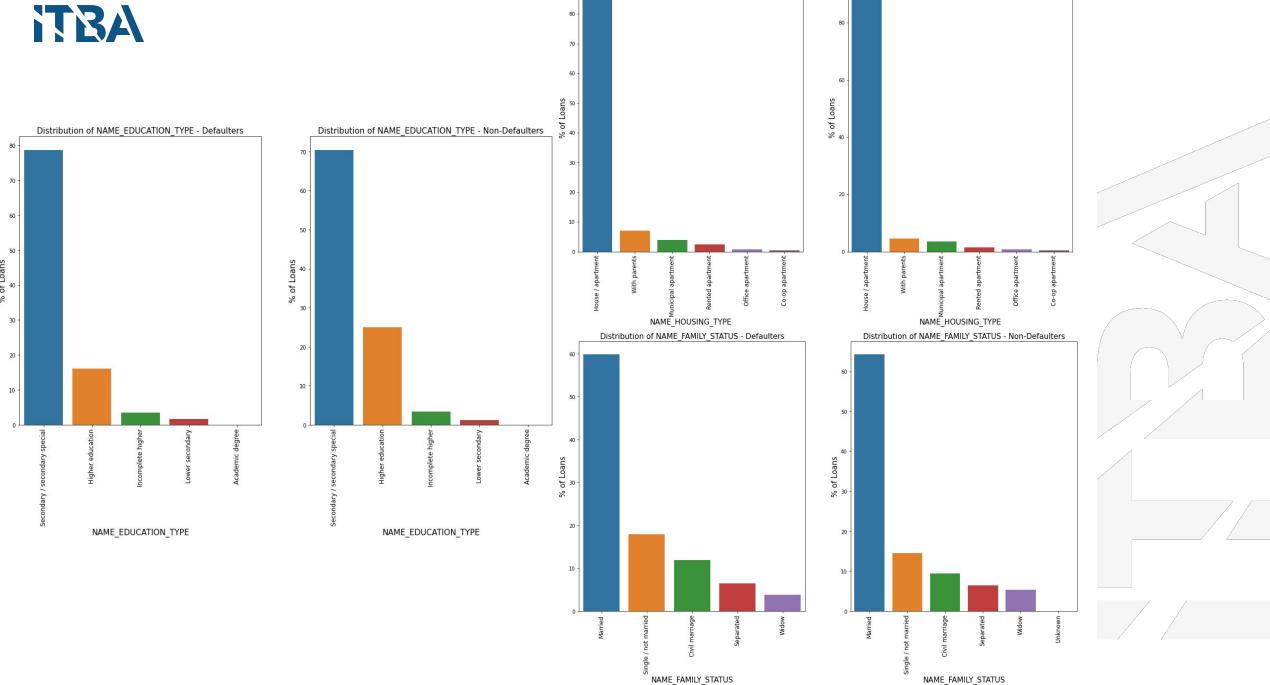
TARGET	FLAG_CONT_MOBILE	FLAG_DOCUMENT_10	FLAG_DOCUMENT_11
N	0,998128666	2.47625E-05	0.00399029
Υ	0.998187311	0	0.00302114
DIFF	-5.86455E-05	2.47625E-05	0.00096914

FLAG_DOCUMENT_12	FLAG_DOCUMENT_13	FLAG_DOCUMENT_14	FLAG_DOCUMENT_15	FLAG_DOCUMENT_16
7.07499E-06	0.00	0.3088232172799500	0.12770352971141100	0.001026934
0	0.001208459	0.12084592145015100	0.4431017119838870	0.006042296
7.07499E-06	0.002520059	0.187977296	-0.315398182	-0.005015362

Index	ΥP	IN POPULATION REI	DAYS BIRTH	DAYS EMPLOYED	DAYS REGISTRATION	DAYS ID PUBLISH	OWN CAR AGE	OCCUP
0		0.018801	-9461	-637	-3648	-2120	nan	Labore
1		0.003541	-16765	-1188	-1186	-291	nan	Core s
2		0.010032	-19046	-225	-4260	-2531	26	Labore
3		0.008019	-19005	-3039	-9833	-2437	nan	Labore
4		0.028663	-19932	-3038	-4311	-345 <mark>8</mark>	nan	Core s
5		0.035792	-16941	-1588	-4970	-477	nan	Labore
6		0.035792	-13778	-3130	-1213	-619	17	Accoun
7		0.003122	-18850	-449	-4597	-2379	8	Manage
8		0.018634	-20099	365243	-7427	-3514	nan	nan
9		0.019689	-14469	-2019	-14437	-3992	nan	Labore
10		0.0228	-10197	-679	-4427	-738	nan	Core s
11	L	a a15221	20417	265742	EDAC	2512	nan	nan



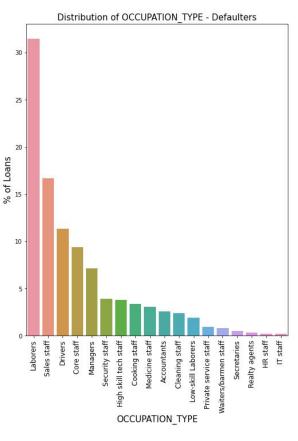


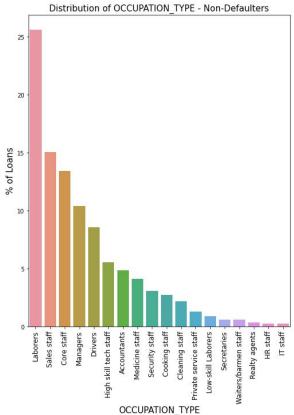


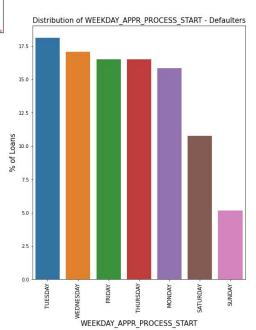
Distribution of NAME_HOUSING_TYPE - Defaulters

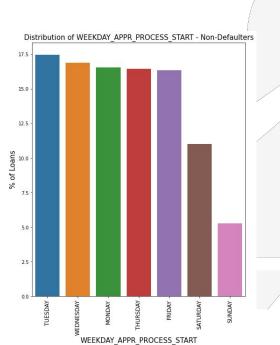
Distribution of NAME_HOUSING_TYPE - Non-Defaulters



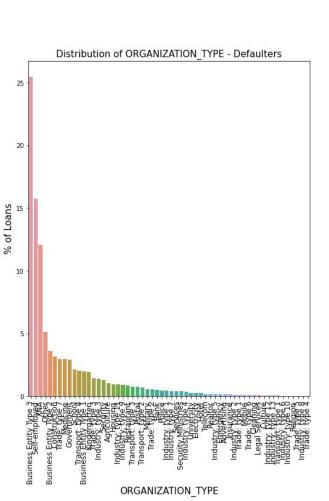


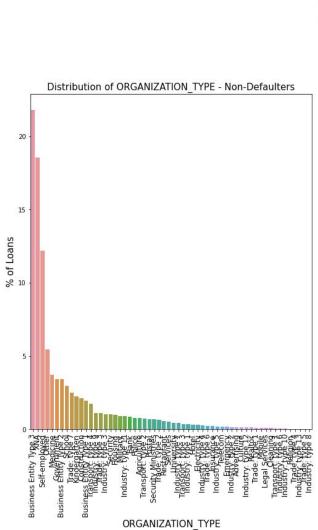


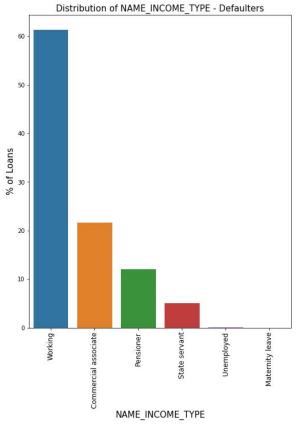


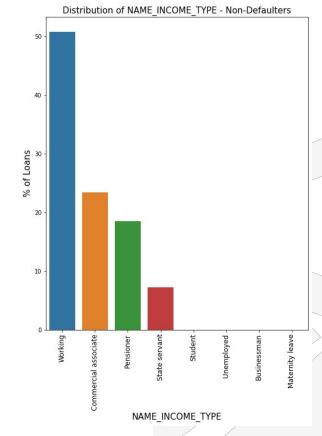




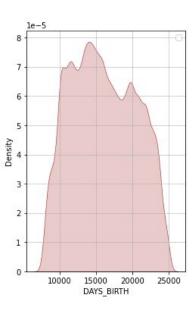


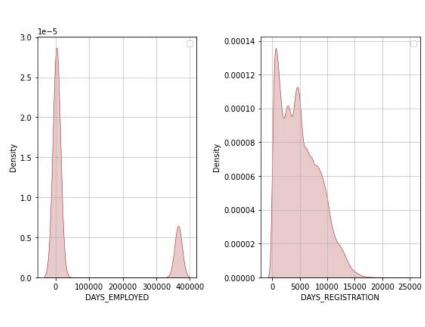


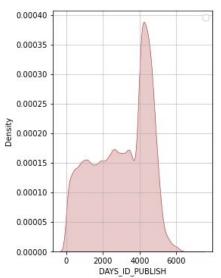


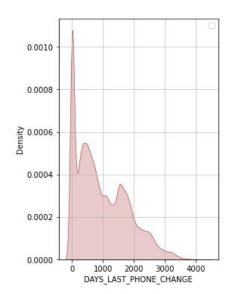




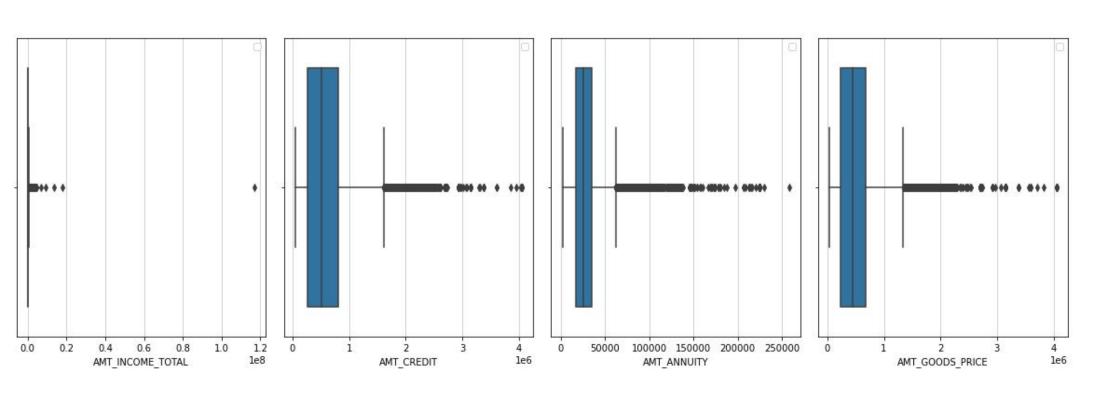








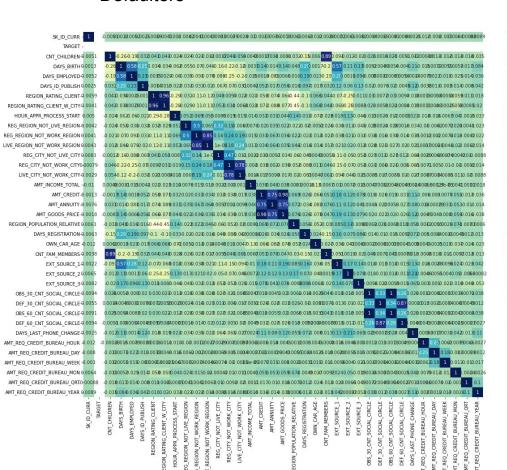
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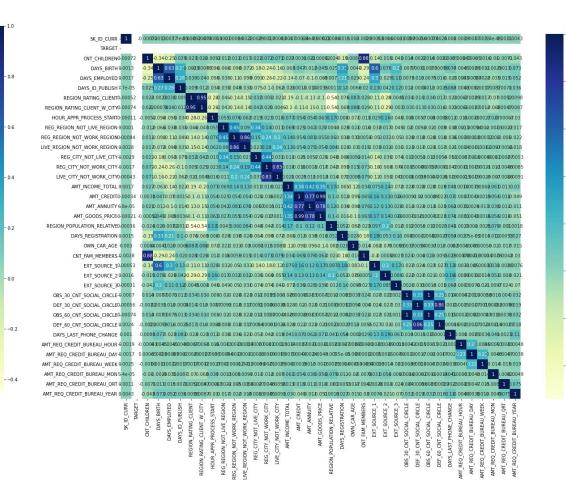




Defaulters



No Defaulters

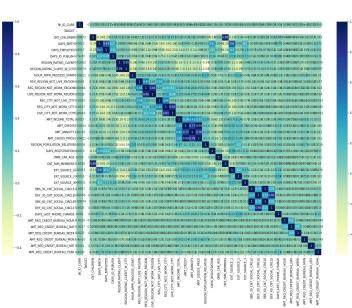


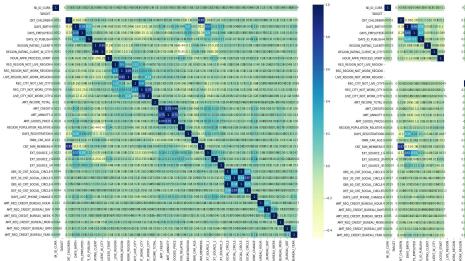


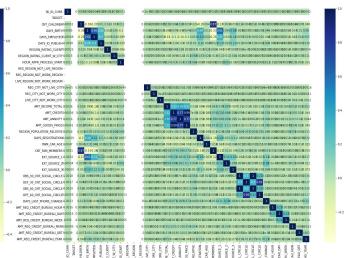
Defaulters

SECURITY CONTROL CONTR

No Defaulters







%36.81

Personas con problemas de pago eliminadas





CONCLUSIONES

- Es una base desbalanceada
- Mejorar limpieza de datos y outliers para no perder tantos datos
- Parece ser más sencillo identificar quien NO tendrá problemas con el pago