## CORTEX: FUNDRAISING USING SAS AND PYTHON

ROEL ADRIÁN DE LA ROSA CASTILLO

A01197595

- 1.00

- 0.75

- 0.50

- 0.25

- 0.00

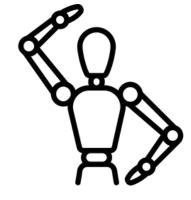
-0.25

-0.50

-0.75



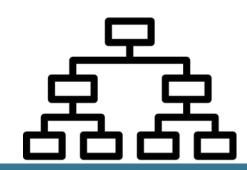
## Tratar con los nans



Usar Dummy Variables



Utilizar GridSearch



Implementar el modelo con los mejores hiperparametros

**Resultados Iniciales** 

**Operating Surplus:** 

\$8,686,235.00

**Expenses:** \$299,995.00

59,999 Personas contactadas

Mejores Resultados

Frequency

AmtLastYear

AmtThisYear

City\_City

NbActivities MaxGift Salary SeniorList

City\_Suburban Seniority

Education\_Elementary Education\_High School

Education\_University / College

Referrals Recency Frequency TotalGift City\_Rural MinGift GaveLastYear

City\_City

City\_Rural

Education High School

TotalGift MaxGift

**Operating Surplus:** 

\$9,556,360.00

Expenses:

80,000 Personas contactadas

Feature Importance in the Gradient

•			
\$800	.00	0.00	)

Rank	Player	Operating surplus	Expenses	Donors contacted	Method	Uploads #	Selected
1	Roel De la Rosa	\$9,556,360.00	\$800,000.00	80000	DecisionTreeRegressor More Rows	6	0
2	Roel De la Rosa	\$9,555,655.00	\$800,000.00	80000	Round1-ScaledData	10	0
3	Roel De la Rosa	\$9,452,125.00	\$300,000.00	60000	DecisionTreeRegressor	14	•
4	Roel De la Rosa	\$9,446,165.00	\$300,000.00	60000	DecisionTreeRegressor	4	0
5	Roel De la Rosa	\$8,829,185.00	\$300,000.00	60000	Round2Output Final Submission	16	0
6	Roel De la Rosa	\$8,803,405.00	\$2,800,000.00	160000	DecisionTreeRegressor More Rows	15	0
7	Roel De la Rosa	\$8,757,890.00	\$300,000.00	60000	GradientBoostingRegressor	12	0
8	Roel De la Rosa	\$8,686,235.00	\$299,995.00	59999	Test3	3	0
9	Roel De la Rosa	\$8,438,580.00	\$300,000.00	60000	DecisionTreeRegressor tuning	13	0
10	Roel De la Rosa	\$8,304,470.00	\$300,000.00	60000	Round2Output	7	0
11	Roel De la Rosa	\$8,304,470.00	\$300,000.00	60000	Round2OutputV2	8	0
12	Roel De la Rosa	\$8,304,470.00	\$300,000.00	60000	DecisionTreeRegressor	9	0
13	Roel De la Rosa	\$8,304,470.00	\$300,000.00	60000	Round2Output Scaled Data	11	0
14	Roel De la Rosa	\$8,199,900.00	\$50,000.00	10000	DecisionTreeRegressor More Rows	5	0