BIENVENIDOS

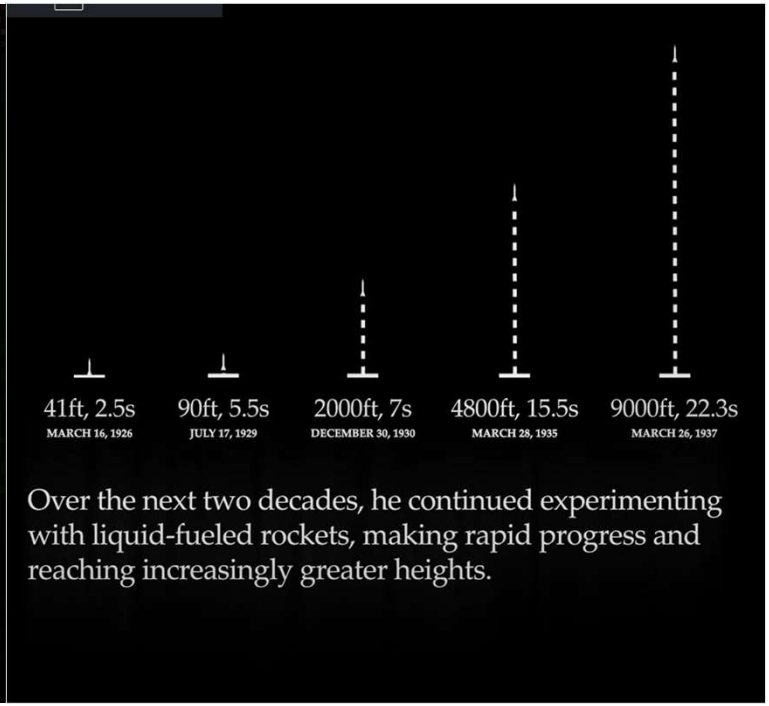
Lab de Proyecto

Master Class IA

Carl Friedrich Gauß
(1777 - 1855)

"Ich habe fleissig sein müssen; wer es gleichfalls ist, wird eben so weit kommen."

La historia de la Ciencia



Robert H. Goddard

(1882 - 1945)

El mundo esta cambiando

INTELIGENCIA ARTIFICIAL
MACHINE LEARNING

No solo es posible, sino que es indispensable

Artificial Intelligence needs all of us | **Rachel Thomas**
https://www.fast.ai/

CESTE
Escuela Internacional de Negocios

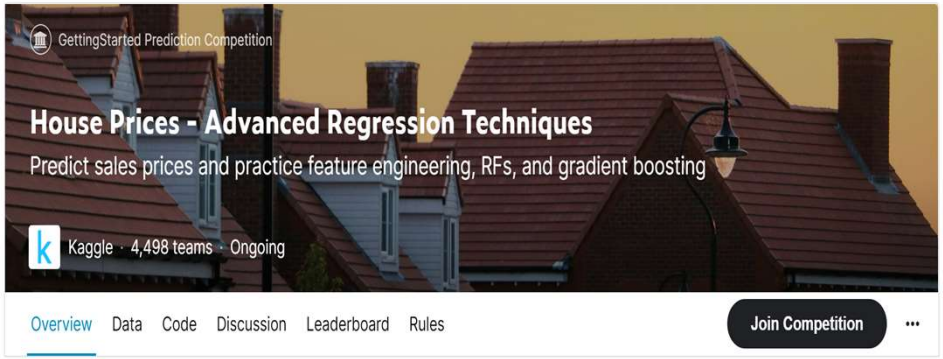
Lab de Proyecto

01/07/2022

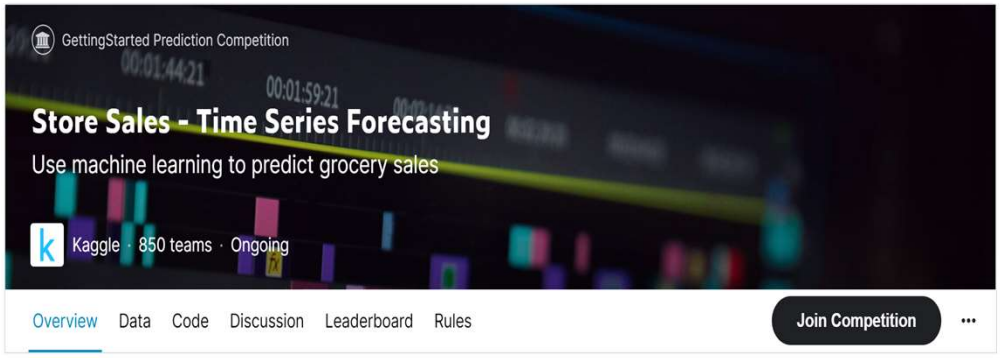
kaggle™

CESTE
Banca y Finanzas

Reto 1



Reto 2



Equipos

GRUPO 1
DIEGO MARZO
JULIAN CORIANO

GRUPO 2
RAUL PULIDO
RACHELE RENDINA
RODRIGO ANCHELEGRES

GRUPO 3
JAFET BENITEZ
JOSE MARIA CALVO
JUAN BADAL

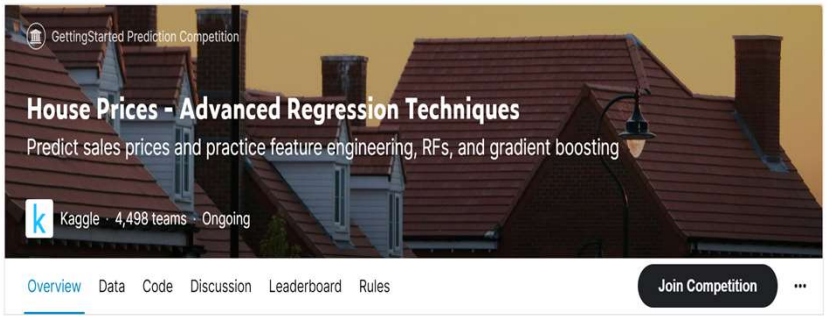
GRUPO 4
NATALIA SISAMON
JAVIER RABAL

GRUPO 5
FRANCISCO RUIZ

cpl-ceste/**midsia2022_lab_proy**

House Prices

4238 participantes -> ~1060 en cada cuartil



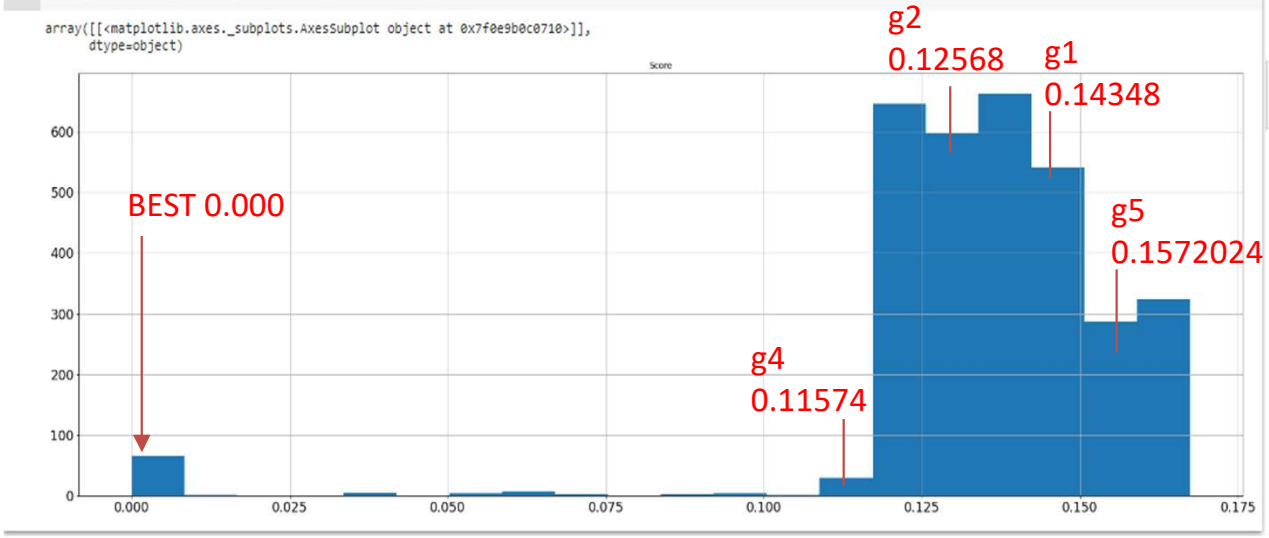

```
1 for q in [0.25,0.50, .75, 1]:
2   print(f'quantile {q} ->'+str(df['Score'].quantile(q)))
```

```
quantile 0.25 ->0.1294
quantile 0.5 ->0.1443
quantile 0.75 ->0.16743
quantile 1 ->24.69626
```

Los 75% top ~3000 mejores

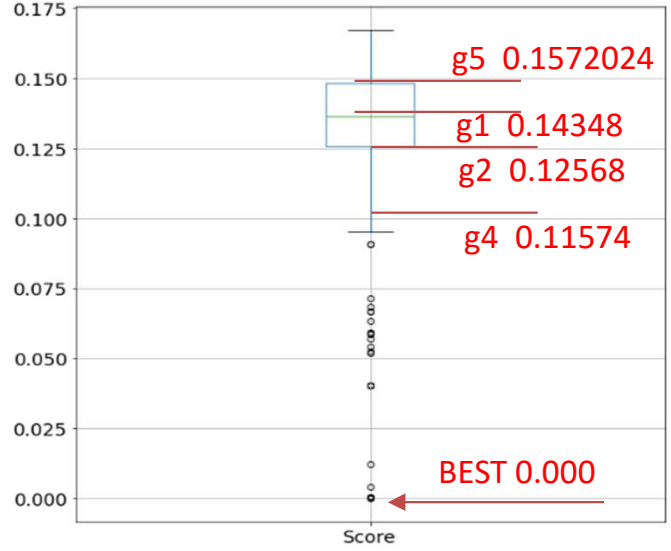
```
1 df_top=pd.DataFrame(df[df['Score']<df['Score'].quantile(.75)]['Score'])
2 df_top.hist(figsize=(30,10),bins=20,xlabelsize=18,ylabelsize=18)
```

```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x7f0e9b0c0710>]],
      dtype=object)
```




```
1 df_top.boxplot(column=['Score'],figsize=(10,10),fontsize=18)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0e9afce890>
```



Digit Recognizer

1376 participantes -> 350 en cada cuartil

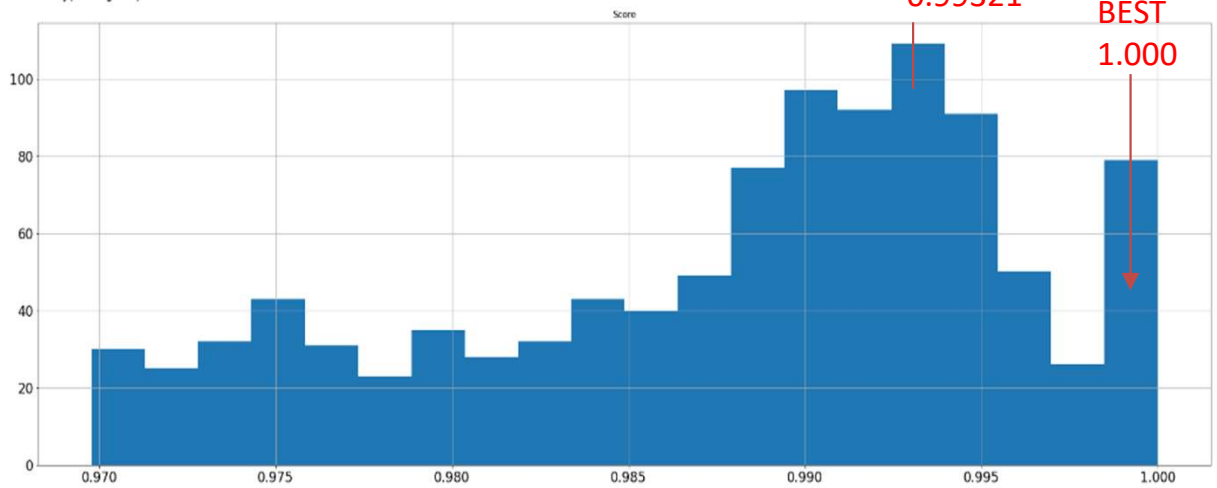

```
1 for q in [0.25,0.50, .75, 1]:
2   print(f'quantile {q} ->'+str(df['Score'].quantile(q)))
```

```
quantile 0.25 ->0.9697724999999999
quantile 0.5 ->0.985885
quantile 0.75 ->0.9926
quantile 1 ->1.0
```

Los 75% top ~1000 mejores

```
[40] 1 df_top=pd.DataFrame(df[df['Score']>df['Score'].quantile(.25)]['Score'])
     2 df_top.hist(figsize=(30,10),bins=20,xlabelsize=18,ylabelsize=18)
```

```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x7f0e9b557cd0>]],
      dtype=object)
```




```
[41] 1 df_top.boxplot(column=['Score'],figsize=(10,10),fontsize=18)
```

```
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```
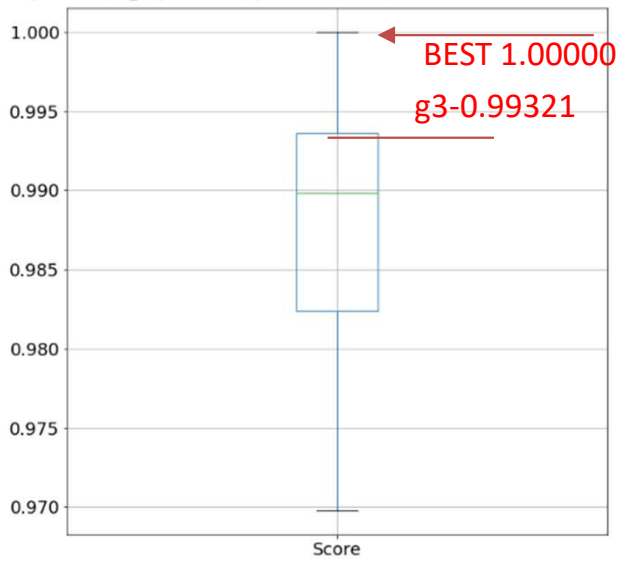
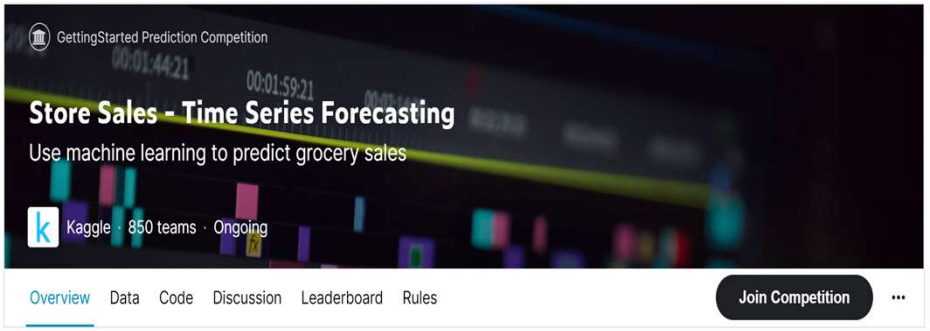



Store Sales

630 participantes -> 150 en cada cuartil



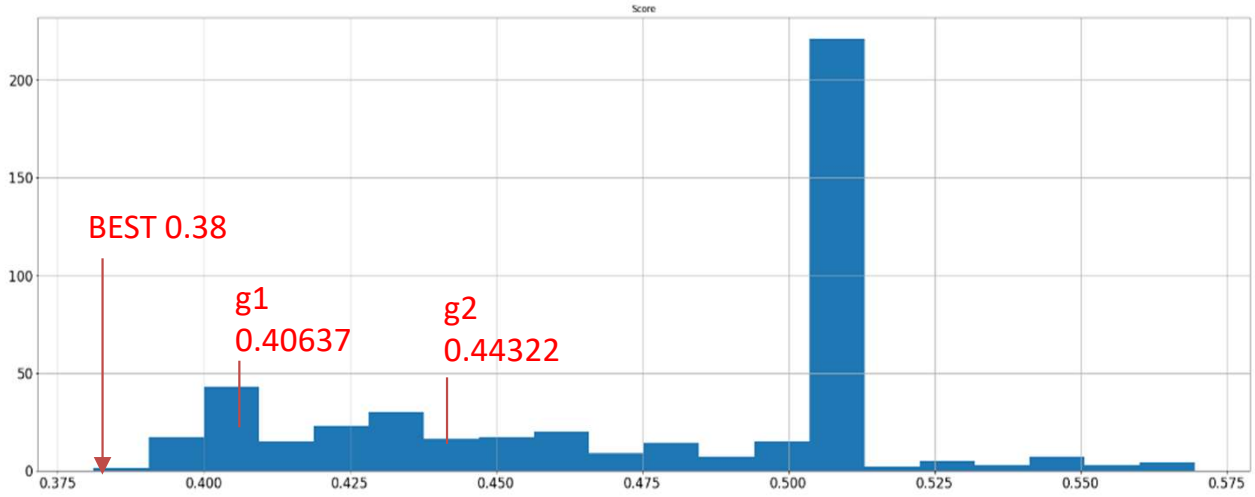

```
1 for q in [0.25,0.50, .75, 1]:
2   print(f'quantile {q} ->'+str(df['Score'].quantile(q)))
```

```
quantile 0.25 ->0.45383249999999997
quantile 0.5 ->0.5109
quantile 0.75 ->0.5706875
quantile 1 ->4.53053
```

Los 75% top ~470 mejores

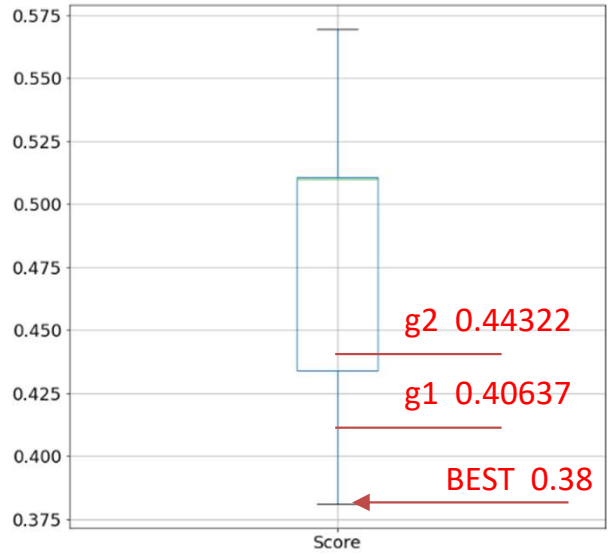
```
[57] 1 df_top=pd.DataFrame(df[df['Score']<df['Score'].quantile(.75)]['Score'])
     2 df_top.hist(figsize=(30,10),bins=20,xlabelsize=18,ylabelsize=18)
```

```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x7f0e9ae24b50>]],
      dtype=object)
```




```
1 df_top.boxplot(column=['Score'],figsize=(10,10),fontsize=18)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0e9adb5b10>
```



NLP Disaster Tweets

954 participantes -> 240 en cada cuartil

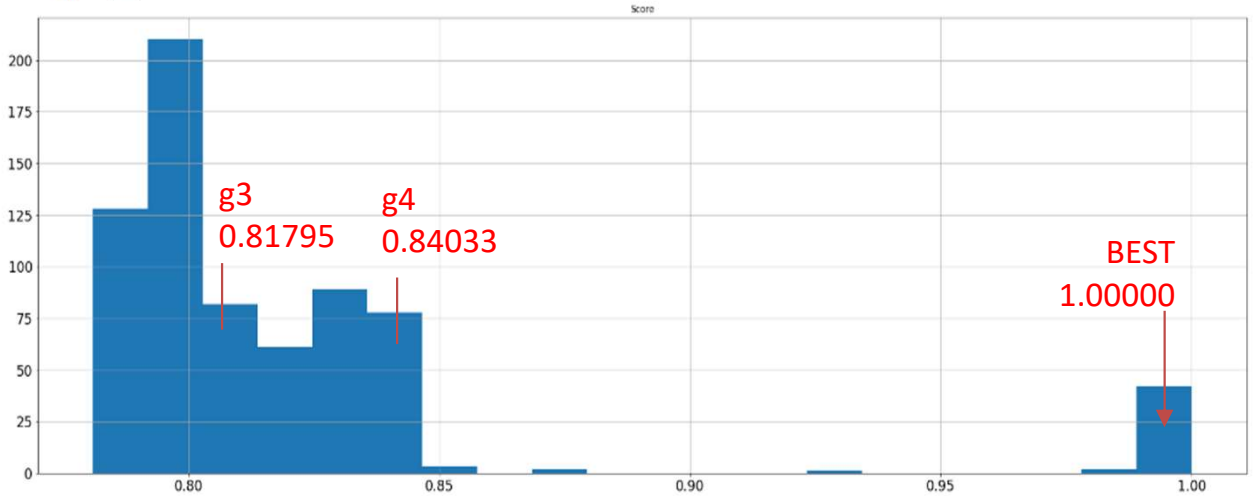
```
1 for q in [0.25,0.50, .75, 1]:
2   print(f'quantile {q} ->'+str(df['Score'].quantile(q)))
```

```
quantile 0.25 ->0.78057
quantile 0.5 ->0.7965
quantile 0.75 ->0.82071
quantile 1 ->1.0
```

Los 75% top ~750 mejores

```
[63] 1 df_top=pd.DataFrame(df[df['Score']>df['Score'].quantile(.25)]['Score'])
     2 df_top.hist(figsize=(30,10),bins=20,xlabelsize=18,ylabelsize=18)
```

```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x7f0e9aaa4f10>]],
      dtype=object)
```




```
1 df_top.boxplot(column=['Score'],figsize=(10,10),fontsize=18)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0e9a9d0810>
```