Herramientas para trabajar con python

Porque todo lo bueno empieza con un poco de miedo💁‍♀️🦄

Agenda

1. Collab
2. Anaconda
3. Jupyter
4. Consola
5. IDE
6. orange

01

Colaboratory

No requiere configuración

Da acceso gratuito a GPUs

Permite compartir contenido fácilmente

02

ANACONDA®

CMD.exe Prompt

0.1.1

Run a cmd.exe terminal with your current environment from Navigator activated

Launch

JupyterLab

↗ 1.2.6

An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.

Launch

Notebook

↗ 6.0.3

Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.

Launch

Orange 3

3.26.0

Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.

Launch

Powershell Prompt

0.0.1

Run a Powershell terminal with your current environment from Navigator activated

Qt Console

↗ 4.6.0

PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.

Spyder

↗ 4.0.1

Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing,

VS Code

1.53.2

Streamlined code editor with support for development operations like debugging, task running and version control.

Más Herramientas

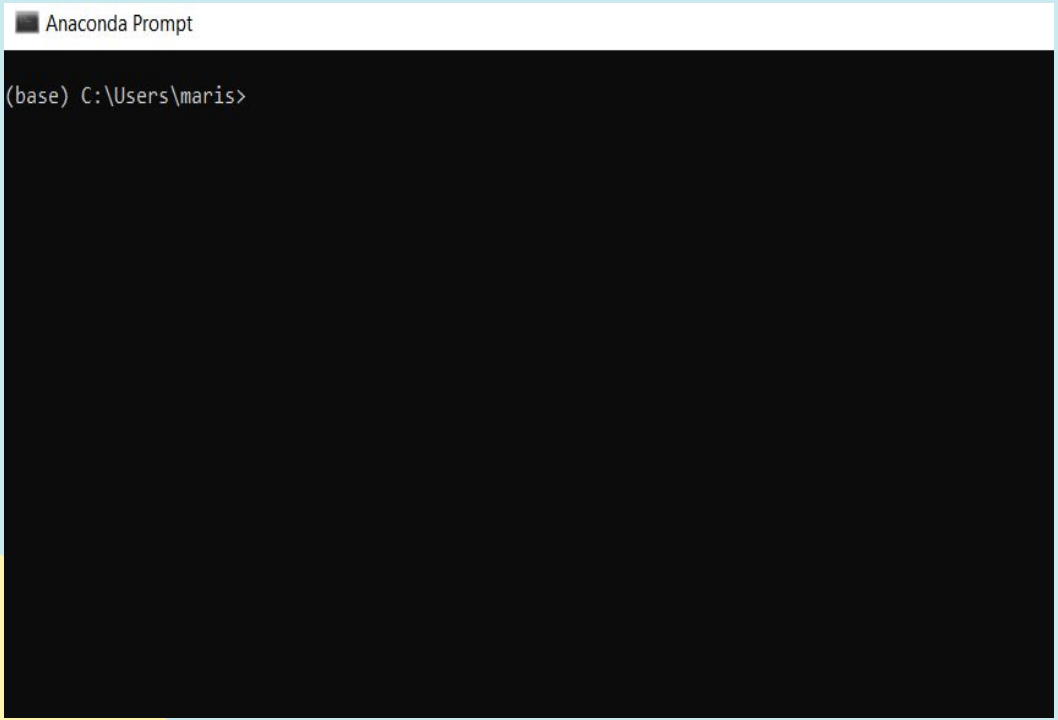
Instalación de herramientas

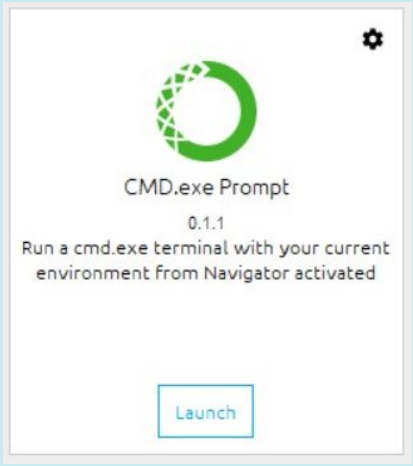
🐥 https://www.python.org/

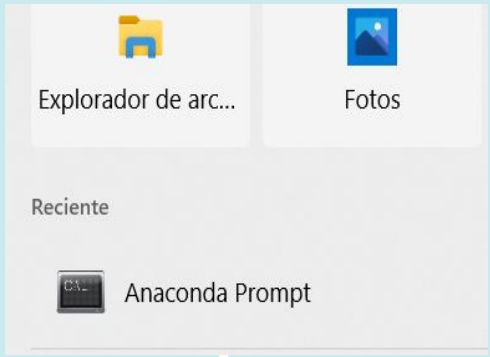
🐥https://anaconda.org/anaconda/python

🐥https://code.visualstudio.com/

la consola 🤓


Anaconda Prompt
(base) C:\Users\maris>


CMD.exe Prompt
0.1.1
Run a cmd.exe terminal with your current environment from Navigator activated
Launch


Explorador de arc...
Fotos
Reciente
Anaconda Prompt

Comandos

```
conda activate nombre_entorno
```

```
conda activate numpy
```

```
(base) C:\Users\admin>conda env list
# conda environments:
#
base                  *  C:\Users\admin\Anaconda3
entorno1                 C:\Users\admin\Anaconda3\envs\entorno1
entorno2                 C:\Users\admin\Anaconda3\envs\entorno2
env_pandas               C:\Users\admin\Anaconda3\envs\env_pandas
numpy                    C:\Users\admin\Anaconda3\envs\numpy
numpy1_10                C:\Users\admin\Anaconda3\envs\numpy1_10
numpy2                   C:\Users\admin\Anaconda3\envs\numpy2
p34_data_science         C:\Users\admin\Anaconda3\envs\p34_data_science
python34                 C:\Users\admin\Anaconda3\envs\python34
```

Comandos

Actualización de python

```
conda update python
```

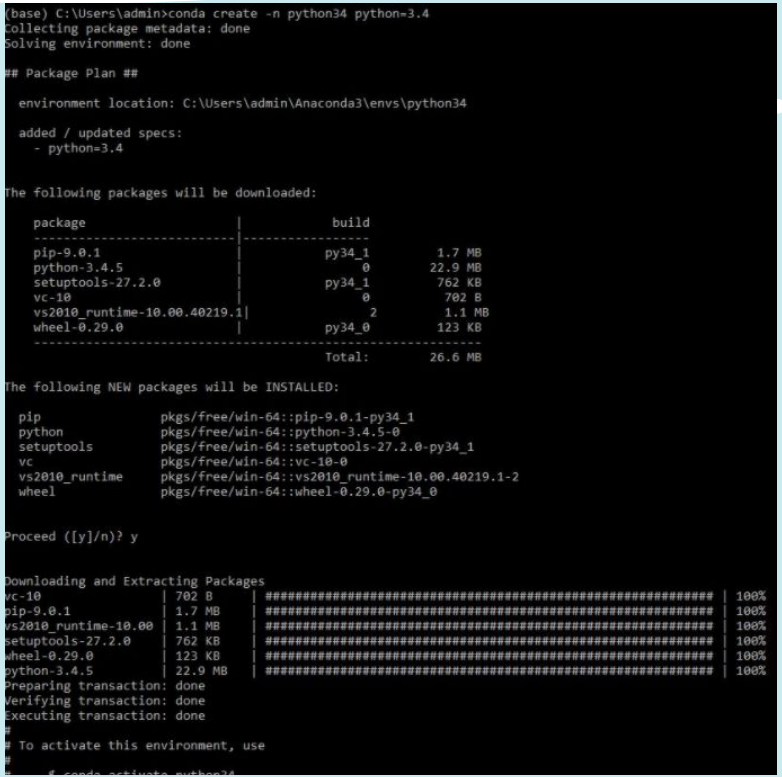
```
(python34) C:\Users\admin>conda update python
Collecting package metadata: done
Solving environment: done

## Package Plan ##

  environment location: C:\Users\admin\Anaconda3\envs\python34

  added / updated specs:
    - python


The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    backports-1.0              |           py27_1           3 KB
    backports.functools_lru_cache-1.5|           py27_1           9 KB
    backports_abc-0.5          |   py27h0ec6b72_0          12 KB
    cycler-0.10.0              |   py27h59acbbf_0          13 KB
    freetype-2.9.1             |       h4d385ea_1         465 KB
    functools32-3.2.3.2        |           py27_1          23 KB
    futures-3.2.0              |           py27_0          24 KB
    icu-58.2                   |       h2aa20d9_1        21.9 MB
    jpeg-9b                    |       ha175dff_2         306 KB
    kiwisolver-1.0.1           |   py27hc56fc5f_0          66 KB
    libpng-1.6.36              |       h7a46e7a_0         512 KB
    matplotlib-2.2.3           |   py27h263d877_0         6.5 MB
    numpy-1.9.3                |           py27_3         2.8 MB
    openssl-1.0.2r             |       h0c8e037_0         4.6 MB
    pandas-0.20.3              |   py27he04484b_2         8.6 MB
    patsy-0.5.1                |           py27_0         377 KB
    pyparsing-2.3.1            |           py27_0         102 KB
    pyqt-5.6.0                 |   py27h6e61f57_6         4.3 MB
    python-dateutil-2.8.0      |           py27_0         279 KB
    pytz-2018.9                |           py27_0         257 KB
```

Comandos

Creación de un entorno con una versión de Python específica

```
conda create -n nombre_entorno python=versión
```

```
conda create -n python34 python=3.4
```



Comandos

Instalación de una librería en un entorno cualquiera

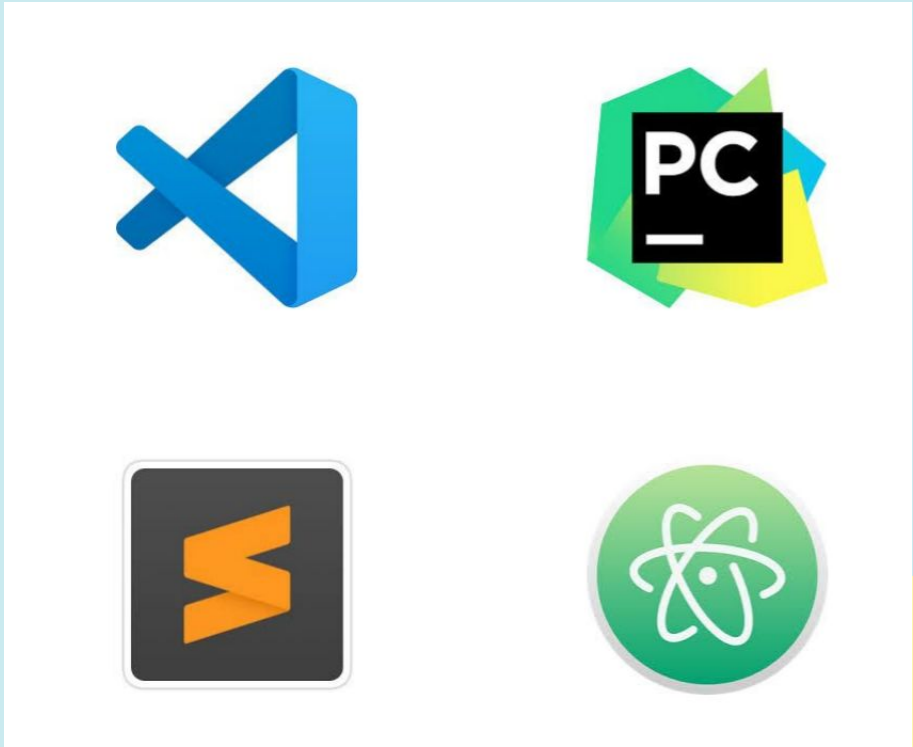
```
conda install -n nombre_entorno librería
```

```
conda install -n numpy matplotlib
```

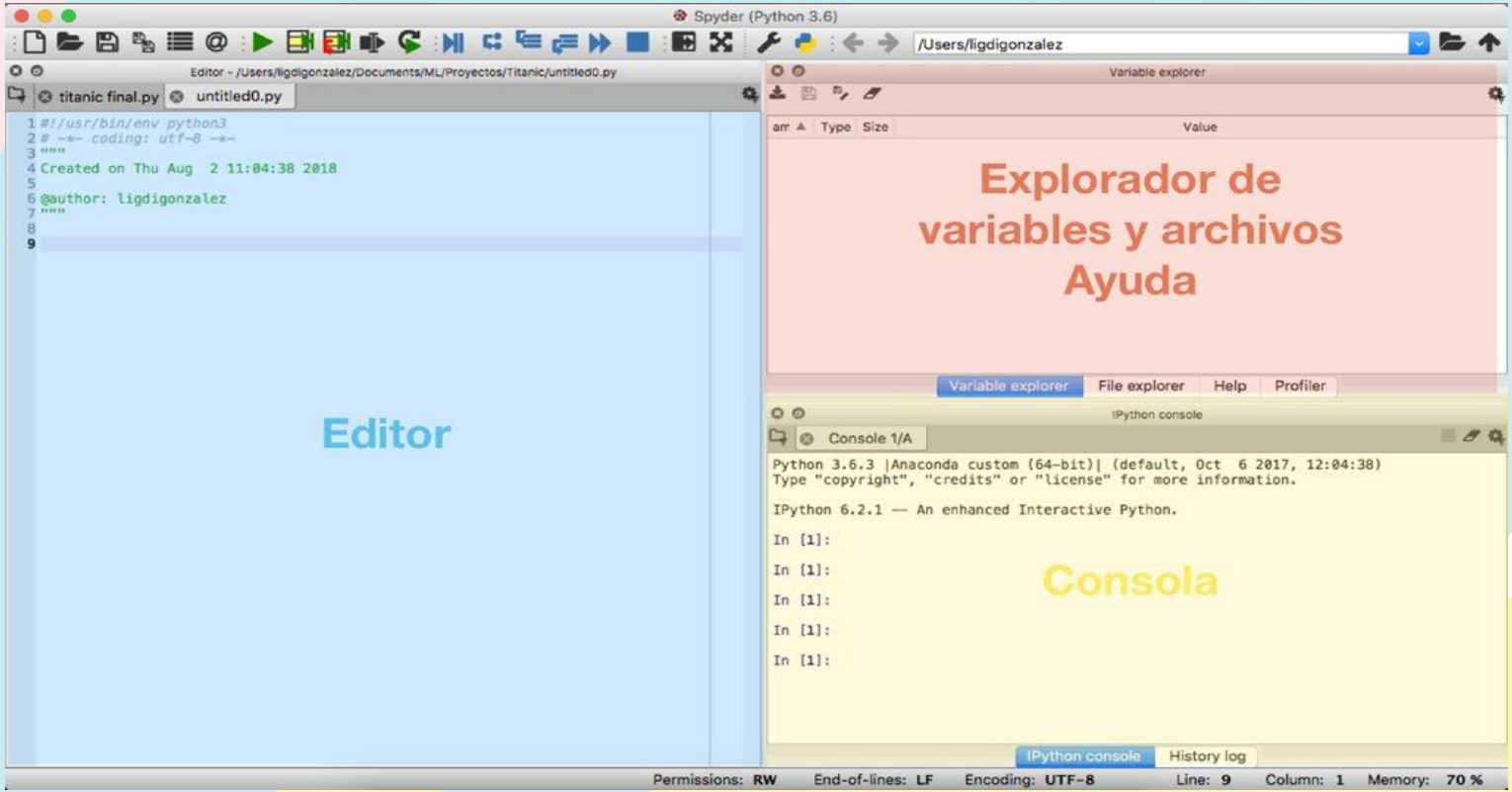
```
conda list -n numpy
```

```
# packages in environment at C:\Users\admin\Anaconda3\envs\numpy:
#
# Name                    Version                   Build  Channel
blas                      1.0                         mkl
ca-certificates           2019.1.23                     0
certifi                   2018.11.29                py37_0
cycler                    0.10.0                    py37_0
freetype                  2.9.1                ha9979f8_1
icc_rt                    2019.0.0             h0cc432a_1
icu                       58.2                 ha66f8fd_1
intel-openmp              2019.1                      144
jpeg                      9b                   hb83a4c4_2
kiwisolver                1.0.1                py37h6538335_0
libpng                    1.6.36               h2a8f88b_0
matplotlib                3.0.2                py37hc8f65d3_0
mkl                       2019.1                      144
mkl_fft                   1.0.10               py37h14836fe_0
mkl_random                1.0.2                py37h343c172_0
numpy                     1.16.2               py37h19fb1c0_0
numpy-base                1.16.2               py37hc3f5095_0
openssl                   1.1.1b               he774522_0
pandas                    0.24.1               py37ha925a31_0
pip                       19.0.3                    py37_0
pyparsing                 2.3.1                     py37_0
pyqt                      5.9.2                py37h6538335_2
python                    3.7.2                h8c8aaf0_10
python-dateutil           2.8.0                     py37_0
pytz                      2018.9                    py37_0
qt                        5.9.7                vc14h73c81de_0
scipy                     1.2.1                py37h29ff71c_0
setuptools                40.8.0                    py37_0
sip                       4.19.8               py37h6538335_0
six                       1.12.0                    py37_0
sqlite                    3.26.0               he774522_0
tornado                   5.1.1                py37hfa6e2cd_0
```

Editores de texto

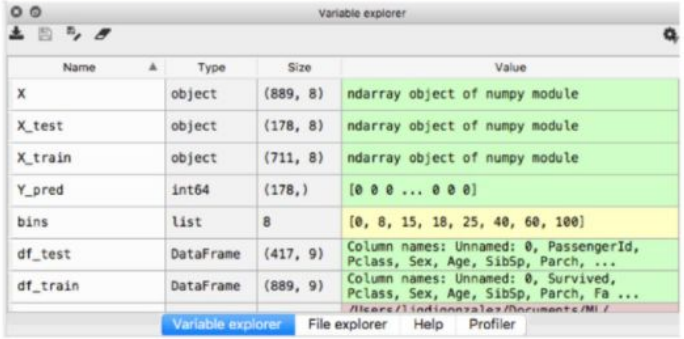


Editores de texto

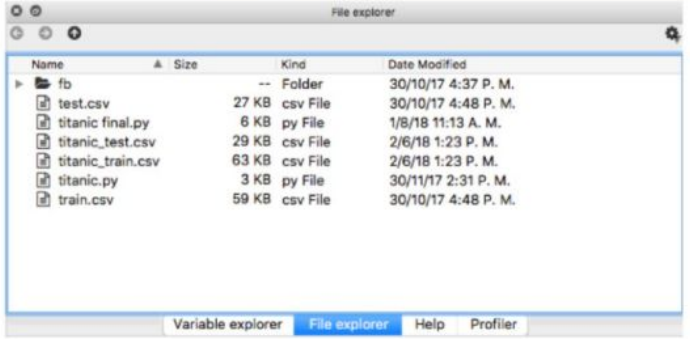


Editores de texto

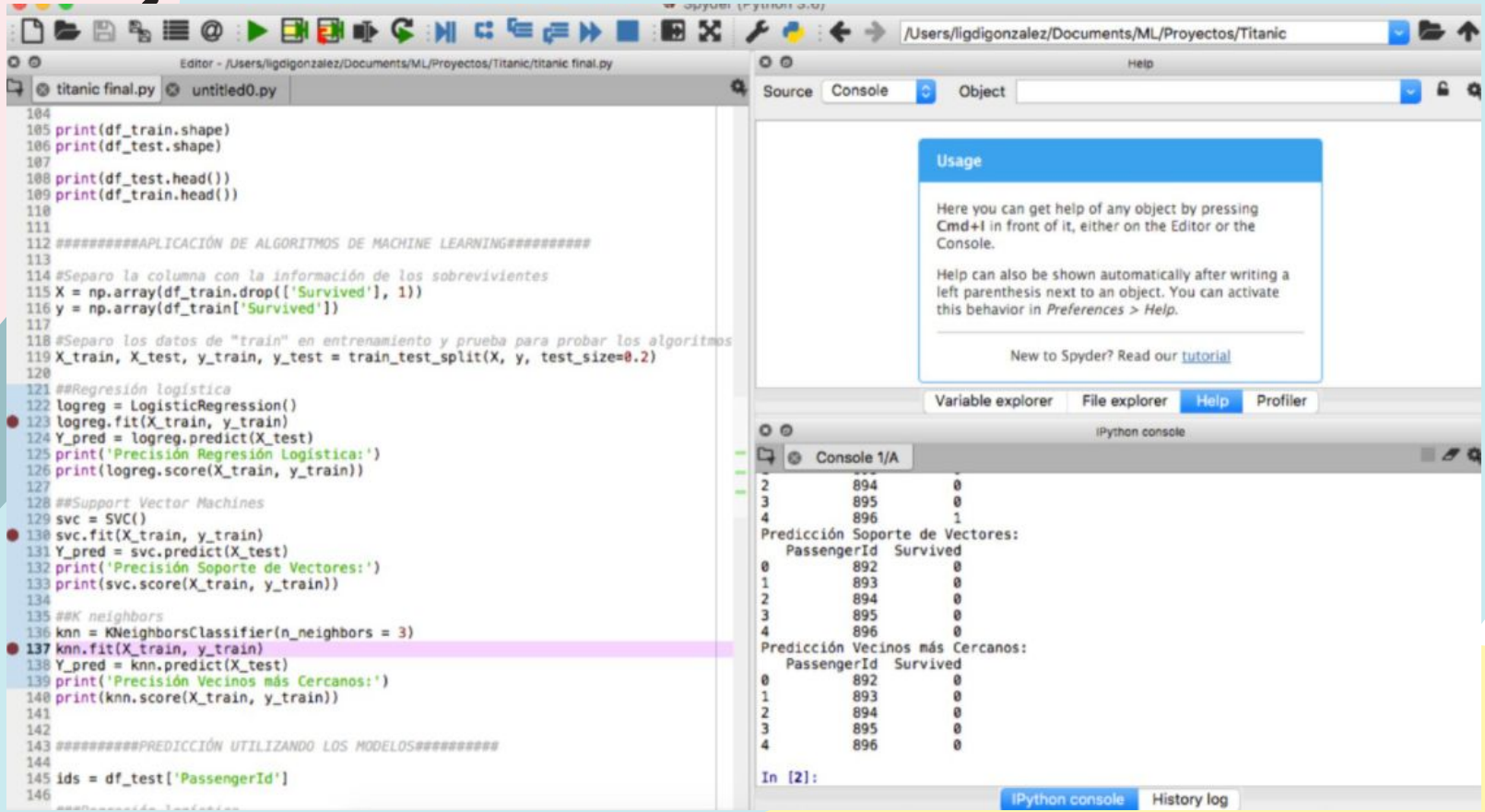
Explorador de Variables



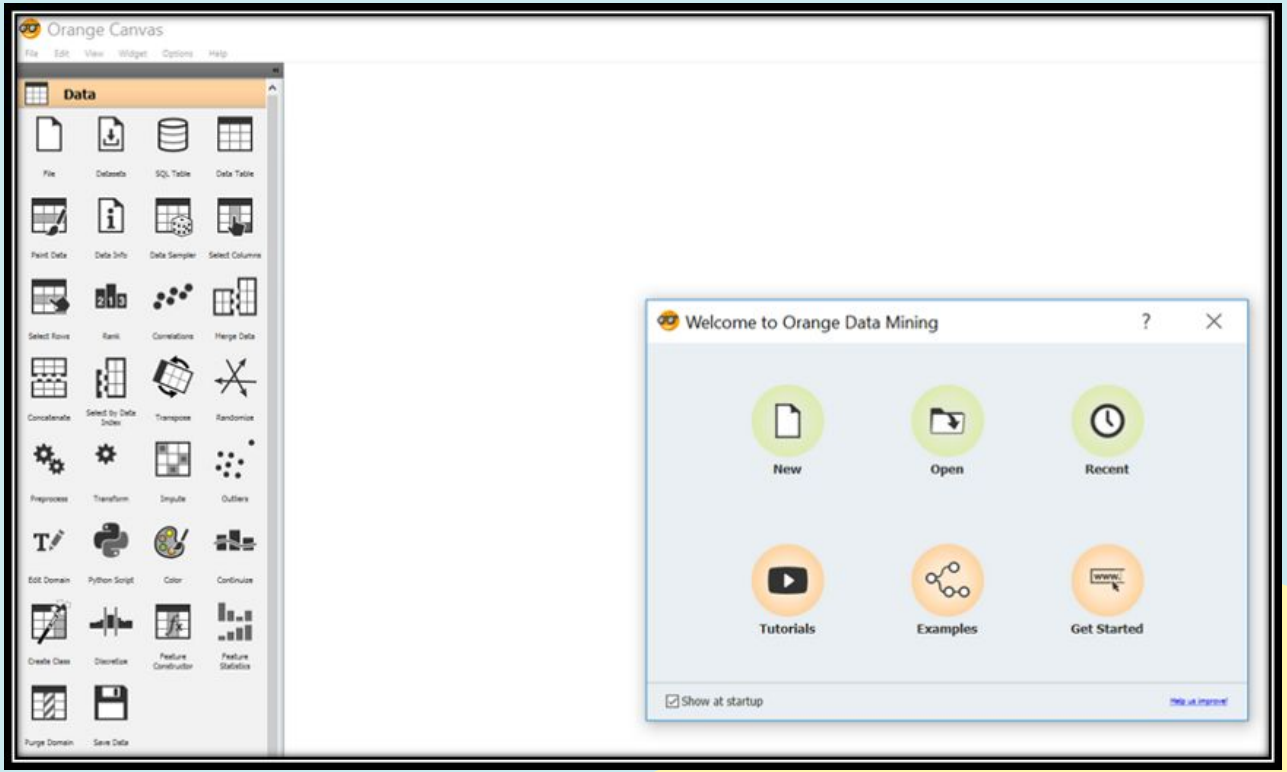
Explorador de Archivos



Ayuda


/Users/ligdigonzalez/Documents/ML/Proyectos/Titanic
Editor - /Users/ligdigonzalez/Documents/ML/Proyectos/Titanic/titanic final.py
titanic final.py
untitled0.py
print(df_train.shape)
print(df_test.shape)
print(df_test.head())
print(df_train.head())
##########APLICACIÓN DE ALGORITMOS DE MACHINE LEARNING#########
#Separo la columna con la información de los sobrevivientes
X = np.array(df_train.drop(['Survived'], 1))
y = np.array(df_train['Survived'])
#Separo los datos de "train" en entrenamiento y prueba para probar los algoritmos
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2)
##Regresión logística
logreg = LogisticRegression()
logreg.fit(X_train, y_train)
Y_pred = logreg.predict(X_test)
print('Precisión Regresión Logística:')
print(logreg.score(X_train, y_train))
##Support Vector Machines
svc = SVC()
svc.fit(X_train, y_train)
Y_pred = svc.predict(X_test)
print('Precisión Soporte de Vectores:')
print(svc.score(X_train, y_train))
##K neighbors
knn = KNeighborsClassifier(n_neighbors = 3)
knn.fit(X_train, y_train)
Y_pred = knn.predict(X_test)
print('Precisión Vecinos más Cercanos:')
print(knn.score(X_train, y_train))
##########PREDICCIÓN UTILIZANDO LOS MODELOS#########
ids = df_test['PassengerId']
Help
Source
Console
Object
Usage
Here you can get help of any object by pressing Cmd+I in front of it, either on the Editor or the Console.
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Variable explorer
File explorer
Help
Profiler
IPython console
Console 1/A
2 894 0
3 895 0
4 896 1
Predicción Soporte de Vectores:
PassengerId Survived
0 892 0
1 893 0
2 894 0
3 895 0
4 896 0
Predicción Vecinos más Cercanos:
PassengerId Survived
0 892 0
1 893 0
2 894 0
3 895 0
4 896 0
In [2]:
IPython console
History log

orange


Orange Canvas
File Edit View Widget Options Help
Data
File
Datasets
SQL Table
Data Table
Paint Data
Data Info
Data Sampler
Select Columns
Select Rows
Rank
Correlations
Merge Data
Concatenate
Select by Data Index
Transpose
Randomize
Preprocess
Transform
Impute
Outliers
Edit Domain
Python Script
Color
Continuize
Create Class
Discretize
Feature Constructor
Feature Statistics
Purge Domain
Save Data
Welcome to Orange Data Mining
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Open
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Examples
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kaggle

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- Marketing Analytics

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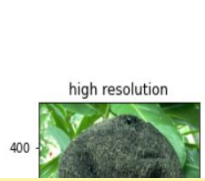
Olga Belitskaya • Follow
created this notebook 8 days ago

Olga Belitskaya commented on this notebook 5

TensorFlow Practice 15

Python Notebook on Python Recipes

16m to run | 198 lines | 68 views | 10 visualizations



Maris Botero
Joined 2 years ago

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- Add your organization
- SMS verify your account
- Run 1 notebook
- Make 1 competition or task submission
- Make 1 comment

¡Gracias!

DATA SCIENCE FEM

Alternative Resources

Recursos

https://orangedatamining.com/blog/page/2/

https://towardsdatascience.com/data-science-made-easy-interactive-data-visualization-using-orange-de8d5f6b7f2b

https://www.anaconda.com/help