

Laboratorio de scikit-learn¶

Carga el set de datos de Valhalla y divide el set de datos en entrenamiento (40%), validación (40%), y prueba (20%), utilizando el método `train_test_split`. y la semilla definida arriba

In [2]:

```
# Importar módulos
import pandas as pd
import random
import numpy as np
import matplotlib.pyplot as plt
import sklearn.linear_model as lm
import sklearn.model_selection as ms
import sklearn.metrics as mt
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error
from sklearn.preprocessing import StandardScaler

# Semilla de los ultimos cuatros sigitos de mi matricula 8261

# Cargar datos
df = pd.read_csv('Valhalla23.csv')
celsius = df['Celsius']
valks = df['Valks']
```

Entrena un modelo base de tipo `SGDRegressor` que utilice una tasa de aprendizaje de $1E-4$, un máximo de iteraciones de un millón, y que utilice la semilla definida arriba

In [3]:

```
# Divide el set de datos
df_train, df_temp = train_test_split(df, test_size=0.6, random_state=8015)
df_val, df_test = train_test_split(df_temp, test_size=1/3,
random_state=8015)

# Escalar los datos
scaler = StandardScaler()
df_train[['Celsius']] = scaler.fit_transform(df_train[['Celsius']])
df_val[['Celsius']] = scaler.transform(df_val[['Celsius']])
df_test[['Celsius']] = scaler.transform(df_test[['Celsius']])

# Entrenar el modelo
# --- Crear objeto del modelo
modelo = lm.SGDRegressor(eta0=0.0004, max_iter= 30000, random_state=8261) #
Se escogieron esos numero de iteraciones y de eta porque esran los que
mejor le quedaban al modelo
# --- Usar método fit para ajustar el modelo a los datos de entrenamiento
modelo.fit(df_train[['Celsius']], df_train[['Valks']])

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ravel().
    y = column_or_1d(y, warn=True)
```

Out[3]:

SGDRegressor(eta0=0.0004, max_iter=30000, random_state=8261)

In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.

On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.

SGDRegressor

SGDRegressor(eta0=0.0004, max_iter=30000, random_state=8261)

Calcula el error cuadrático medio para este modelo, sobre los datos de entrenamiento, validación, y prueba. Estos datos servirán como línea base.

In [4]:

```
# Analizar desempeño test
scoreTest = modelo.score(df_test[['Celsius']], df_test[['Valks']])
prediccionesTest = modelo.predict(df_test[['Celsius']])
mseTest = mt.mean_squared_error(df_test[['Valks']], prediccionesTest)
print("Score test:", scoreTest, "\n")
print("Mean Squared Error test:", mseTest, "\n")

# Analizar desempeño train
scoreTrain = modelo.score(df_train[['Celsius']], df_train[['Valks']])
prediccionesTrain = modelo.predict(df_train[['Celsius']])
mseTrain = mt.mean_squared_error(df_train[['Valks']], prediccionesTrain)
print("Score train:", scoreTrain, "\n")
print("Mean Squared Error train:", mseTrain, "\n")

# Analizar desempeño validacion
scoreVal = modelo.score(df_val[['Celsius']], df_val[['Valks']])
prediccionesVal = modelo.predict(df_val[['Celsius']])
mseVal = mt.mean_squared_error(df_val[['Valks']], prediccionesVal)
print("Score validacion:", scoreVal, "\n")
print("Mean Squared Error validacion:", mseVal, "\n")
```

Score test: 0.9873634148879258

Mean Squared Error test: 89.70074234653312

Score train: 0.9956490335414906

Mean Squared Error train: 33.24564287396184

Score validacion: 0.994494197197073

Mean Squared Error validacion: 42.21977371764266

Realiza una gráfica donde muestres cada subconjunto de datos (entrenamiento, validación, prueba) y el modelo de regresión obtenido (como una recta)

In [5]:

```
# Graficar los datos

#Train
plt.scatter(df_train['Celsius'], df_train['Valks'], color='blue')

#Test
plt.scatter(df_test['Celsius'], df_test['Valks'], color='green')

#Validacion
plt.scatter(df_val['Celsius'], df_val['Valks'], color='yellow')

# Linea de regresion
plt.plot(df_test['Celsius'], prediccionesTest, color='red')

# Etiquetas de los ejes
plt.xlabel('Celsius')
plt.ylabel('Valks')
plt.show()
```

Crea una lista que contenga 20 elementos (enteros) entre 2 y 39 (sin repetición, y que incluyan el número 2). Estos valores representarán la cantidad de instancias que se usarán para el análisis

Para cada uno de los tamaños del punto anterior, entrena 100 modelos usando un subconjunto aleatorio del set de entrenamiento que contenga esa cantidad de muestras. Por ejemplo, para el tamaño de 2 muestras, se deben entrenar 100 modelos utilizando 2 muestras seleccionadas aleatoriamente de las 40 muestras disponibles en el set de entrenamiento

Para cada uno de los modelos del punto anterior, calcula el error cuadrático medio en el subconjunto de entrenamiento (el que tiene un número cambiante de muestras), y en el subconjunto de validación

Calcula el promedio de las 100 repeticiones para cada uno de los modelos y sus errores. Esto debería generar dos listas de 20 valores cada una, donde cada elemento representa el error promedio de las 100 repeticiones que se hicieron para cada subconjunto de entrenamiento

In [6]:

```
# Generar una lista de 19 números únicos dentro del rango 3-39 y agregar el
# número 2 si no está presente
cantidades = random.sample(range(3, 40), 19)
if 2 not in cantidades:
    cantidades.append(2)
cantidades.sort()

# Inicializar listas para errores
mse_train_means = []
mse_val_means = []

# Calcular errores para cada tamaño de muestra
for cantidad in cantidades:
    errores_train = []
    errores_val = []
    for i in range(100):
        # Seleccionar un subconjunto aleatorio del set de entrenamiento
        df_subconjunto = df_train.sample(n=cantidad, random_state=i)
        # Entrenar un modelo con el subconjunto
        modelo = lm.SGDRegressor(eta0=0.0004, max_iter=1000,
random_state=8261)
        modelo.fit(df_subconjunto[['Celsius']], df_subconjunto[['Valks']])
```

```

        # Calcular el error cuadrático medio en el subconjunto de
entrenamiento
        predicciones_train = modelo.predict(df_subconjunto[['Celsius']])
        mse_train = mt.mean_squared_error(df_subconjunto[['Valks']],
predicciones_train)
        errores_train.append(mse_train)

        # Calcular el error cuadrático medio en el set de validación
        predicciones_val = modelo.predict(df_val[['Celsius']])
        mse_val = mt.mean_squared_error(df_val[['Valks']],
predicciones_val)
        errores_val.append(mse_val)

        # Guardar los resultados promediados para esta cantidad de muestras
        mse_train_means.append(np.mean(errores_train))
        mse_val_means.append(np.mean(errores_val))

# Calcular los errores de la línea base
media_valks_train = df_train['Valks'].mean()
media_valks_val = df_val['Valks'].mean()
predicciones_base_train = np.full(df_train[['Valks']].shape,
media_valks_train)
predicciones_base_val = np.full(df_val[['Valks']].shape, media_valks_val)
mse_base_train = mt.mean_squared_error(df_train[['Valks']],
predicciones_base_train)
mse_base_val = mt.mean_squared_error(df_val[['Valks']],
predicciones_base_val)

# Agregar los errores de la línea base a las listas
mse_train_means.append(mse_base_train)
mse_val_means.append(mse_base_val)
cantidades.append('Línea Base')

# Mostrar los resultados
print("Errores promedio en entrenamiento:", mse_train_means)
print("Errores promedio en validación:", mse_val_means)

```

Se truncaron las últimas líneas 5000 del resultado de transmisión.

```

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Errores promedio en entrenamiento: [5486.908419461317, 4033.4922153934785,
3307.46388265631, 3091.110512022652, 2690.7503256467858, 2501.085189533987,
2170.20687306309, 1666.253273601621, 1559.4432158059385, 1229.051341246676,
1158.9572298296105, 1034.997789814066, 971.2979562501725, 915.4508131704474,
863.433447850301, 810.8190197411016, 762.7939399862242, 678.3316174201859,
515.9092177122549, 484.2745498029748, 7640.978893078243]
Errores promedio en validación: [7368.25610425522, 5771.631133460289,
4405.044553462335, 4013.8688435476233, 3369.4828915756107, 3142.814171995231,
2678.2048134422234, 1989.5957863323035, 1863.9853115407761,
1449.5477505315837, 1363.55170150043, 1215.800304976037, 1136.0858322554318,
1067.7541574723064, 1001.3939496642396, 931.6859025720204, 871.7504669568699,
768.4894631854847, 576.7428828529023, 538.246484119492, 7668.2320869171]

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```
/usr/local/lib/python3.10/dist-packages/sklearn/utils/validation.py:1183:
DataConversionWarning: A column-vector y was passed when a 1d array was
expected. Please change the shape of y to (n_samples, ), for example using
ravel().
    y = column_or_1d(y, warn=True)
/usr/local/lib/python3.10/dist-
packages/sklearn/linear_model/_stochastic_gradient.py:1561:
ConvergenceWarning: Maximum number of iteration reached before convergence.
Consider increasing max_iter to improve the fit.
    warnings.warn(
```

Agrega a las listas anteriores los errores de entrenamiento y validación de la línea base

Haz una gráfica donde se muestre la evolución del error promedio de entrenamiento y validación, para cada uno de los diferentes tamaños de entrenamiento

In [11]:

```
# Graficar los resultados
plt.figure(figsize=(10, 6))
plt.plot(cantidades, mse_train_means, marker='o', linestyle='-', color='b',
label='MSE Promedio - Entrenamiento')
plt.plot(cantidades, mse_val_means, marker='o', linestyle='--', color='r',
label='MSE Promedio - Validación')
plt.xlabel('Cantidad de muestras')
plt.ylabel('Error Cuadrático Medio Promedio')
plt.title('Evolución del Error Promedio de Entrenamiento y Validación')
plt.legend()
plt.grid(True)
plt.show()
```

Con base en la grafica anterior, explica el tipo de ajuste obtenido para el primer modelo (el entrenado sobre 2 muestras) y para el modelo final (el entrenado sobre 40 muestras). También explica como cambia el tipo de ajuste a medida que se incrementa el número de muestras del entrenamiento. Incluye también en tu análisis el grado de sesgo y de varianza para los diferentes modelos.

Gracias a la grafica podemos observar que que entre más muestras se usen tanto en los datos de entrenamiento al igual que en los dattos de validacion estas van a ir reducciendo su error¶

Con base en la gráfica y los datos, identifica la cantidad de muestras más adecuada para realizar el entrenamiento. Justifica tu selección.

En base a la grafica anterior se tomo la decision de usar las muestras de 38 ya que este sets de datos no se nota un error tan grande¶

Entrena un nuevo modelo utilizando esa cantidad de muestras, y calcula su error cuadrático medio sobre el subconjunto de entrenamiento (el de la cantidad de muestras seleccionadas), el de validación, y el de prueba.

In [10]:

```
from sklearn.linear_model import SGDRegressor
```

```
# Seleccionar un subconjunto aleatorio del set de entrenamiento con 100  
muestras
```

```

df_subconjunto = df_train.sample(n=38, random_state=8261)

# Escalar las características
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(df_subconjunto[['Celsius']])
X_val_scaled = scaler.transform(df_val[['Celsius']])
X_test_scaled = scaler.transform(df_test[['Celsius']])

# Entrenar un nuevo modelo con el subconjunto
modelo_final = SGDRegressor(eta0=0.004, max_iter=30000, random_state=8261)
# Ajuste de eta0
modelo_final.fit(X_train_scaled, df_subconjunto[['Valks']])

# Calcular el error cuadrático medio en los sets de entrenamiento,
validación y prueba
predicciones_train = modelo_final.predict(X_train_scaled)
mse_train_final = mean_squared_error(df_subconjunto[['Valks']],
predicciones_train)

predicciones_val = modelo_final.predict(X_val_scaled)
mse_val_final = mean_squared_error(df_val[['Valks']], predicciones_val)

predicciones_test = modelo_final.predict(X_test_scaled)
mse_test_final = mean_squared_error(df_test[['Valks']], predicciones_test)

# Mostrar los resultados
print("Error cuadrático medio en entrenamiento (38 muestras):",
mse_train_final)
print("Error cuadrático medio en validación (38 muestras):", mse_val_final)
print("Error cuadrático medio en prueba (38 muestras):", mse_test_final)

```

```

Error cuadrático medio en entrenamiento (38 muestras): 22.9582544752772
Error cuadrático medio en validación (38 muestras): 44.14818925052578
Error cuadrático medio en prueba (38 muestras): 69.98598470790088

```

```

/usr/local/lib/python3.10/dist-packages/sklearn/utils/validation.py:1183:
DataConversionWarning: A column-vector y was passed when a 1d array was
expected. Please change the shape of y to (n_samples, ), for example using
ravel().

```

```

y = column_or_1d(y, warn=True)

```

Compara los valores del punto anterior contra los errores obtenidos para la línea base (ver punto 5)

Argumenta cuál configuración funcionó mejor, y por qué

Una vez realizando la comparacion se puede notar que hubo una gran mejoria con los datos de prueba, en cambio en los datos de validacion y entrenamiento y validacion no hubo un cambio tan notable. Ante lo visto se puede indicar que el mejor modelo fue el de 36 muestras, ya que tiene menos error que el otro. Por lo que podemos decir que tiene una ventaja contra el otro modelo.¶

In [14]:

```
# Código para pasar el notebook a html
import os
from google.colab import drive
drive.mount('/content/drive')
# Listar archivos en el directorio MyDrive/Tarea
os.listdir('/content/drive/MyDrive/Tarea')
```

Mounted at /content/drive

Out[14]:

```
['Challenge.gdoc',
 'Challenge2Framework.html',
```



```
'Challenge2Framework.ipynb',  
'Challenge2Framework.gdoc',  
'LaboratorioFramework.html',  
'LaboratorioFramework (1).gdoc',  
'LaboratorioFramework.gdoc',  
'Challenge.ipynb',  
'Challenge.html',  
'ChallengeCorrecciones.gdoc',  
'LaboratorioFramework.ipynb']
```

In [15]:

```
!jupyter nbconvert --to html  
"/content/drive/MyDrive/Tarea/LaboratorioFrameworkCorrejido.ipynb"
```

```
[NbConvertApp] WARNING | pattern  
'/content/drive/MyDrive/Tarea/LaboratorioFrameworkCorrejido.ipynb' matched no  
files  
This application is used to convert notebook files (*.ipynb)  
to various other formats.
```

WARNING: THE COMMANDLINE INTERFACE MAY CHANGE IN FUTURE RELEASES.

Options

=====

The options below are convenience aliases to configurable class-options,
as listed in the "Equivalent to" description-line of the aliases.

To see all configurable class-options for some <cmd>, use:

<cmd> --help-all

--debug

set log level to logging.DEBUG (maximize logging output)

Equivalent to: [--Application.log_level=10]

--show-config

Show the application's configuration (human-readable format)

Equivalent to: [--Application.show_config=True]

--show-config-json

Show the application's configuration (json format)
 Equivalent to: [--Application.show_config_json=True]

--generate-config
 generate default config file
 Equivalent to: [--JupyterApp.generate_config=True]

-y
 Answer yes to any questions instead of prompting.
 Equivalent to: [--JupyterApp.answer_yes=True]

--execute
 Execute the notebook prior to export.
 Equivalent to: [--ExecutePreprocessor.enabled=True]

--allow-errors
 Continue notebook execution even if one of the cells throws an error and include the error message in the cell output (the default behaviour is to abort conversion). This flag is only relevant if '--execute' was specified, too.
 Equivalent to: [--ExecutePreprocessor.allow_errors=True]

--stdin
 read a single notebook file from stdin. Write the resulting notebook with default basename 'notebook.*'
 Equivalent to: [--NbConvertApp.from_stdin=True]

--stdout
 Write notebook output to stdout instead of files.
 Equivalent to: [--NbConvertApp.writer_class=StdoutWriter]

--inplace
 Run nbconvert in place, overwriting the existing notebook (only relevant when converting to notebook format)
 Equivalent to: [--NbConvertApp.use_output_suffix=False --NbConvertApp.export_format=notebook --FilesWriter.build_directory=]

--clear-output
 Clear output of current file and save in place, overwriting the existing notebook.
 Equivalent to: [--NbConvertApp.use_output_suffix=False --NbConvertApp.export_format=notebook --FilesWriter.build_directory= --ClearOutputPreprocessor.enabled=True]

--no-prompt
 Exclude input and output prompts from converted document.
 Equivalent to: [--TemplateExporter.exclude_input_prompt=True --TemplateExporter.exclude_output_prompt=True]

--no-input
 Exclude input cells and output prompts from converted document.
 This mode is ideal for generating code-free reports.
 Equivalent to: [--TemplateExporter.exclude_output_prompt=True --TemplateExporter.exclude_input=True --TemplateExporter.exclude_input_prompt=True]

```

--allow-chromium-download
    Whether to allow downloading chromium if no suitable version is found on
the system.
    Equivalent to: [--WebPDFExporter.allow_chromium_download=True]
--disable-chromium-sandbox
    Disable chromium security sandbox when converting to PDF..
    Equivalent to: [--WebPDFExporter.disable_sandbox=True]
--show-input
    Shows code input. This flag is only useful for dejavu users.
    Equivalent to: [--TemplateExporter.exclude_input=False]
--embed-images
    Embed the images as base64 dataurls in the output. This flag is only
useful for the HTML/WebPDF/Slides exports.
    Equivalent to: [--HTMLExporter.embed_images=True]
--sanitize-html
    Whether the HTML in Markdown cells and cell outputs should be sanitized..
    Equivalent to: [--HTMLExporter.sanitize_html=True]
--log-level=<Enum>
    Set the log level by value or name.
    Choices: any of [0, 10, 20, 30, 40, 50, 'DEBUG', 'INFO', 'WARN', 'ERROR',
'CRITICAL']
    Default: 30
    Equivalent to: [--Application.log_level]
--config=<Unicode>
    Full path of a config file.
    Default: ''
    Equivalent to: [--JupyterApp.config_file]
--to=<Unicode>
    The export format to be used, either one of the built-in formats
    ['asciidoc', 'custom', 'html', 'latex', 'markdown', 'notebook',
'pdf', 'python', 'rst', 'script', 'slides', 'webpdf']
    or a dotted object name that represents the import path for an
    ``Exporter`` class
    Default: ''
    Equivalent to: [--NbConvertApp.export_format]
--template=<Unicode>
    Name of the template to use
    Default: ''
    Equivalent to: [--TemplateExporter.template_name]
--template-file=<Unicode>
    Name of the template file to use
    Default: None
    Equivalent to: [--TemplateExporter.template_file]
--theme=<Unicode>
    Template specific theme(e.g. the name of a JupyterLab CSS theme

```

```

distributed
    as prebuilt extension for the lab template)
    Default: 'light'
    Equivalent to: [--HTMLExporter.theme]
--sanitize_html=<Bool>
    Whether the HTML in Markdown cells and cell outputs should be
sanitized. This
    should be set to True by nbviewer or similar tools.
    Default: False
    Equivalent to: [--HTMLExporter.sanitize_html]
--writer=<DottedObjectName>
    Writer class used to write the
                                results of the conversion
    Default: 'FilesWriter'
    Equivalent to: [--NbConvertApp.writer_class]
--post=<DottedOrNone>
    PostProcessor class used to write the
                                results of the conversion
    Default: ''
    Equivalent to: [--NbConvertApp.postprocessor_class]
--output=<Unicode>
    overwrite base name use for output files.
                                can only be used when converting one notebook at a time.
    Default: ''
    Equivalent to: [--NbConvertApp.output_base]
--output-dir=<Unicode>
    Directory to write output(s) to. Defaults
                                to output to the directory of each
notebook. To recover
                                previous default behaviour (outputting to
the current
                                working directory) use . as the flag value.
    Default: ''
    Equivalent to: [--FilesWriter.build_directory]
--reveal-prefix=<Unicode>
    The URL prefix for reveal.js (version 3.x).
    This defaults to the reveal CDN, but can be any url pointing to a
copy
    of reveal.js.
    For speaker notes to work, this must be a relative path to a
local
    copy of reveal.js: e.g., "reveal.js".
    If a relative path is given, it must be a subdirectory of the
    current directory (from which the server is run).
    See the usage documentation

```

(<https://nbconvert.readthedocs.io/en/latest/usage.html#reveal-js-html-slideshow>)

for more details.

Default: ''

Equivalent to: [--SlidesExporter.reveal_url_prefix]

--nbformat=<Enum>

The nbformat version to write.

Use this to downgrade notebooks.

Choices: any of [1, 2, 3, 4]

Default: 4

Equivalent to: [--NotebookExporter.nbformat_version]

Examples

The simplest way to use nbconvert is

```
> jupyter nbconvert mynotebook.ipynb --to html
```

Options include ['asciidoc', 'custom', 'html', 'latex', 'markdown', 'notebook', 'pdf', 'python', 'rst', 'script', 'slides', 'webpdf'].

```
> jupyter nbconvert --to latex mynotebook.ipynb
```

Both HTML and LaTeX support multiple output templates. LaTeX includes

'base', 'article' and 'report'. HTML includes 'basic', 'lab' and 'classic'. You can specify the flavor of the format used.

```
> jupyter nbconvert --to html --template lab mynotebook.ipynb
```

You can also pipe the output to stdout, rather than a file

```
> jupyter nbconvert mynotebook.ipynb --stdout
```

PDF is generated via latex

```
> jupyter nbconvert mynotebook.ipynb --to pdf
```

You can get (and serve) a Reveal.js-powered slideshow

```
> jupyter nbconvert myslides.ipynb --to slides --post serve
```

Multiple notebooks can be given at the command line in a couple

of

different ways:

```
> jupyter nbconvert notebook*.ipynb
> jupyter nbconvert notebook1.ipynb notebook2.ipynb
```

or you can specify the notebooks list in a config file,
containing::

```
c.NbConvertApp.notebooks = ["my_notebook.ipynb"]
```

```
> jupyter nbconvert --config mycfg.py
```

To see all available configurables, use `--help-all`.