

INF-354-2P-P1

November 26, 2023

```
[1]: #Importamos el modulo de Google Drive
#from google.colab import drive
#Montamos la carpeta content de Drive
#drive.mount("/content/drive")
#Asignamos la ruta donde se encuentra nuestro dataset
#archivo="/content/drive/MyDrive/data/Iris.csv"
archivo = "C:/Users/TOSHIBA/Desktop/INF - 354/Segundo Parcial/P1/Iris.csv"
#importamos la libreria random
import random
#importamos la libreria csv
import csv
#Importaremos pandas solamente para observar el dataset
import pandas as pd
#Importaremos la libreria numpy
import numpy as np
#Importamos la libreria matplotlib para graficar
import matplotlib.pyplot as plt
#Importamos la libreria de sklearn para hacer el train test split
from sklearn.model_selection import train_test_split
#Utilizaremos la libreria para convertir a one hot encoder
from sklearn.preprocessing import OneHotEncoder
```

```
[2]: df = pd.read_csv(archivo)
#Mostramos el dataset Iris
df
```

```
[2]:
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	\
0	1	5.1	3.5	1.4	0.2	
1	2	4.9	3.0	1.4	0.2	
2	3	4.7	3.2	1.3	0.2	
3	4	4.6	3.1	1.5	0.2	
4	5	5.0	3.6	1.4	0.2	
..	
145	146	6.7	3.0	5.2	2.3	
146	147	6.3	2.5	5.0	1.9	
147	148	6.5	3.0	5.2	2.0	
148	149	6.2	3.4	5.4	2.3	
149	150	5.9	3.0	5.1	1.8	

```

        Species
0      Iris-setosa
1      Iris-setosa
2      Iris-setosa
3      Iris-setosa
4      Iris-setosa
..      ...
145    Iris-virginica
146    Iris-virginica
147    Iris-virginica
148    Iris-virginica
149    Iris-virginica

[150 rows x 6 columns]

```

```

[3]: #funcion para obtener X y y
def obtenerDatos(ruta):
    #X tendra los registros menos la columna de la variable objetivo similar a
    ↪iris.data
    X = []
    #Almacenara los registros de los tipos de flor similar a iris.target
    y = []
    with open(ruta, 'r', newline='') as dataset:
        lector_csv = csv.reader(dataset)

        # Leemos cada fila del archivo CSV
        for fila in lector_csv:
            # Agregamos todas las columnas excepto la última a X
            X.append(fila[1:-1])
            # Agregamos la última columna a y
            y.append(fila[-1])
        #Eliminamos las cabeceras y convertimos los datos a float
        X = [[float(elemento) for elemento in fila] for fila in X[1:]]
        #Eliminamos las cabeceras
        y = y[1:]
        #vamos a cambiar la etiquetas al estandar label encoder
        le = []
        for i in range(len(y)):
            if(y[i] == "Iris-setosa"):
                le.append(0)
            elif(y[i] == "Iris-virginica"):
                le.append(1)
            elif(y[i] == "Iris-versicolor"):
                le.append(2)
        return X, le

```

```

#En X almacenaremos los registros del dataset
#en y almacenaremos la variable objetivo del dataset
X,y = obtenerDatos(archivo)
#Mostramos X
print(X)
#Mostramos y
print(y)

```

```

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```

```
[4]: #Funcion para realizar la normalizacion utilizando la norma euclideana L2
def normalizar(X, order = 2, axis = -1):
    #calculamos la norma l2
    l2 = np.atleast_1d(np.linalg.norm(X, order, axis))
    #si la norma calculada es 0 se cambia a 1 para evitar la division entre 0
    l2[l2 == 0] = 1
    #retornamos el array normalizado dividiendo cada elemento por su norma
    ↪ calculada
    return X / np.expand_dims(l2, axis)

def convertir_a_one_hot(array):
    # Reshape el array a una matriz de una sola columna
    reshape = np.array(array).reshape(-1, 1)
    # Crear una instancia del OneHotEncoder
    encoder = OneHotEncoder(sparse=False, categories='auto')
    # Ajustar y transformar el array
    array_one_hot = encoder.fit_transform(reshape)
    return array_one_hot
```

```
[5]: X = normalizar(X)
y = convertir_a_one_hot(y)
print(X)
print(y)
```

```
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 [0.69052512 0.32145135 0.60718588 0.22620651]
 [0.69193502 0.32561648 0.60035539 0.23403685]
 [0.68914871 0.33943145 0.58629069 0.25714504]
 [0.72155725 0.32308533 0.56001458 0.24769876]
 [0.72965359 0.28954508 0.57909015 0.22005426]
 [0.71653899 0.3307103 0.57323119 0.22047353]
 [0.67467072 0.36998072 0.58761643 0.25028107]
 [0.69025916 0.35097923 0.5966647 0.21058754]]
 [[1. 0. 0.]
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 [1. 0. 0.]

[illegible]

[illegible]

C:\Users\TOSHIBA\AppData\Local\Programs\Python\Python311\Lib\site-

```
packages\sklearn\preprocessing\_encoders.py:975: FutureWarning: `sparse` was
renamed to `sparse_output` in version 1.2 and will be removed in 1.4.
`sparse_output` is ignored unless you leave `sparse` to its default value.
warnings.warn(
```

```
[6]: #Definimos la proporcion del 80% para entrenamiento
proporcion_entrenamiento = 0.8
#Definimos la proporcion del 20% para prueba
proporcion_prueba = 0.2
#Cantidad de registros del dataset
muestras = 150
#definimos los indices
indices = list(range(muestras))
#mezclamos los indices dentro de la lista
random.shuffle(indices)
#cantidad de muestras para train
num_train = int(muestras * proporcion_entrenamiento)
#cantidad de muestras para test
num_test = int(muestras * proporcion_prueba)
#indices para entrenamieto
train_indices = indices[:num_train]
#indices para prueba
test_indices = indices[num_train:]
#Obtenemos los datos de entrenamiento y de prueba para X y y
X_train = [X[i] for i in train_indices]
y_train = [y[i] for i in train_indices]
X_test = [X[i] for i in test_indices]
y_test = [y[i] for i in test_indices]
print("X_train")
X_train = np.array(X_train)
print(X_train)
print("y_train")
y_train = np.array(y_train)
print(y_train)
print("X_test")
X_test = np.array(X_test)
print(X_test)
print("y_test")
y_test = np.array(y_test)
print(y_test)
```

```
X_train
[[0.69997037 0.32386689 0.58504986 0.25073566]
 [0.73659895 0.33811099 0.56754345 0.14490471]
 [0.80373519 0.55070744 0.22325977 0.02976797]
 [0.78417499 0.5663486 0.2468699 0.05808704]
 [0.79837025 0.55735281 0.22595384 0.03012718]
 [0.76923077 0.30769231 0.53846154 0.15384615]]
```

[0.70600618 0.2383917 0.63265489 0.21088496]
[0.72460233 0.37623583 0.54345175 0.19508524]
[0.75519285 0.33928954 0.53629637 0.16417236]
[0.65387747 0.34250725 0.62274045 0.25947519]
[0.82647451 0.4958847 0.26447184 0.03305898]
[0.72785195 0.32870733 0.56349829 0.21131186]
[0.71562645 0.3523084 0.56149152 0.22019275]
[0.80218492 0.54548574 0.24065548 0.0320874]
[0.72634846 0.38046824 0.54187901 0.18446945]
[0.76693897 0.57144472 0.28572236 0.06015208]
[0.82699754 0.52627116 0.19547215 0.03007264]
[0.81803119 0.51752994 0.25041771 0.01669451]
[0.75728103 0.3542121 0.52521104 0.15878473]
[0.73446047 0.37367287 0.5411814 0.16750853]
[0.74143307 0.29421947 0.57667016 0.17653168]
[0.73089855 0.30454106 0.58877939 0.1624219]
[0.67017484 0.36168166 0.59571097 0.2553047]
[0.79524064 0.54144043 0.27072022 0.03384003]
[0.73239618 0.38547167 0.53966034 0.15418867]
[0.72155725 0.32308533 0.56001458 0.24769876]
[0.776114 0.54974742 0.30721179 0.03233808]
[0.77964883 0.58091482 0.22930848 0.0458617]
[0.82512295 0.52807869 0.19802951 0.03300492]
[0.68914871 0.33943145 0.58629069 0.25714504]
[0.75384916 0.31524601 0.54825394 0.17818253]
[0.76785726 0.34902603 0.51190484 0.16287881]
[0.78010936 0.57660257 0.23742459 0.0508767]
[0.82225028 0.51771314 0.22840286 0.06090743]
[0.77729093 0.57915795 0.24385598 0.030482]
[0.78667474 0.35883409 0.48304589 0.13801311]
[0.67467072 0.36998072 0.58761643 0.25028107]
[0.75911707 0.3931142 0.48800383 0.17622361]
[0.70631892 0.37838513 0.5675777 0.18919257]
[0.77577075 0.60712493 0.16864581 0.03372916]
[0.69804799 0.338117 0.59988499 0.196326]
[0.71366557 0.28351098 0.61590317 0.17597233]
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[0.71066905 0.35533453 0.56853524 0.21320072]
[0.8068282 0.53788547 0.24063297 0.04246464]
[0.72366005 0.32162669 0.58582004 0.17230001]
[0.73081412 0.34743622 0.56308629 0.16772783]
[0.72712585 0.26661281 0.60593821 0.18178146]
[0.75676497 0.35228714 0.53495455 0.13047672]
[0.69025916 0.35097923 0.5966647 0.21058754]
[0.78889479 0.55222635 0.25244633 0.09466737]

[0.79428944 0.57365349 0.19121783 0.05883625]
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[0.76467269 0.31486523 0.53976896 0.15743261]
[0.71491405 0.30207636 0.59408351 0.21145345]
[0.75916547 0.37183615 0.51127471 0.15493173]
[0.71524936 0.40530797 0.53643702 0.19073316]
[0.74714194 0.33960997 0.54337595 0.17659719]
[0.75457341 0.34913098 0.52932761 0.16893434]
[0.77011854 0.35349703 0.50499576 0.16412362]
[0.69198788 0.34599394 0.58626751 0.24027357]
[0.69299099 0.34199555 0.60299216 0.19799743]
[0.76741698 0.34773582 0.51560829 0.15588157]
[0.76578311 0.60379053 0.22089897 0.0147266]
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[0.73350949 0.35452959 0.55013212 0.18337737]
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[0.8173379 0.51462016 0.25731008 0.03027177]
[0.68619022 0.31670318 0.61229281 0.232249]
[0.80212413 0.54690282 0.23699122 0.03646019]
[0.7581754 0.32659863 0.5365549 0.17496355]
[0.72766159 0.27533141 0.59982915 0.18683203]
[0.72337118 0.34195729 0.57869695 0.15782644]
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[0.81609427 0.5336001 0.21971769 0.03138824]
[0.71414125 0.26647062 0.61821183 0.19185884]
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[0.80846584 0.52213419 0.26948861 0.03368608]
[0.76521855 0.33391355 0.52869645 0.15304371]
[0.8025126 0.55989251 0.20529392 0.01866308]
[0.71653899 0.3307103 0.57323119 0.22047353]
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[0.69595601 0.3427843 0.59208198 0.21813547]
[0.73260391 0.36029701 0.55245541 0.1681386]
[0.67054118 0.34211284 0.61580312 0.23263673]
[0.82307218 0.51442011 0.24006272 0.01714734]
[0.73544284 0.35458851 0.55158213 0.1707278]
[0.86093857 0.44003527 0.24871559 0.0573959]
[0.71171214 0.35002236 0.57170319 0.21001342]
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[0.73337886 0.32948905 0.54206264 0.24445962]

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[0.79778206 0.5424918 0.25529026 0.06382256]
[0.80327412 0.55126656 0.22050662 0.04725142]
[0.69333409 0.38518561 0.57777841 0.1925928 ]
[0.80033301 0.56023311 0.20808658 0.04801998]
[0.70779525 0.31850786 0.60162596 0.1887454 ]
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[0.74088576 0.33173989 0.55289982 0.18798594]
[0.73154399 0.28501714 0.57953485 0.21851314]
[0.74549757 0.37274878 0.52417798 0.17472599]
[0.76945444 0.35601624 0.50531337 0.16078153]
[0.76301853 0.33526572 0.53180079 0.15029153]
[0.71578999 0.34430405 0.5798805 0.18121266]
[0.80377277 0.55160877 0.22064351 0.0315205 ]
[0.76262994 0.34186859 0.52595168 0.1577855 ]
[0.70558934 0.32722984 0.58287815 0.23519645]
[0.80003025 0.53915082 0.26087943 0.03478392]
[0.80533308 0.54831188 0.2227517 0.03426949]
[0.77867447 0.59462414 0.19820805 0.02831544]]
```

y_train

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[0. 1. 0.]
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[1. 0. 0.]
[0. 0. 1.]
[0. 1. 0.]
[1. 0. 0.]
[1. 0. 0.]
[1. 0. 0.]

X_test

[0.69997037 0.32386689 0.58504986 0.25073566]
[0.73659895 0.33811099 0.56754345 0.14490471]
[0.80373519 0.55070744 0.22325977 0.02976797]
[0.78417499 0.5663486 0.2468699 0.05808704]


```
[0.79837025 0.55735281 0.22595384 0.03012718]
[0.76923077 0.30769231 0.53846154 0.15384615]
[0.70600618 0.2383917 0.63265489 0.21088496]
[0.72460233 0.37623583 0.54345175 0.19508524]
[0.75519285 0.33928954 0.53629637 0.16417236]
[0.65387747 0.34250725 0.62274045 0.25947519]
[0.82647451 0.4958847 0.26447184 0.03305898]
[0.72785195 0.32870733 0.56349829 0.21131186]
[0.71562645 0.3523084 0.56149152 0.22019275]
[0.80218492 0.54548574 0.24065548 0.0320874 ]
[0.72634846 0.38046824 0.54187901 0.18446945]
[0.76693897 0.57144472 0.28572236 0.06015208]
[0.82699754 0.52627116 0.19547215 0.03007264]
[0.81803119 0.51752994 0.25041771 0.01669451]
[0.75728103 0.3542121 0.52521104 0.15878473]
[0.73446047 0.37367287 0.5411814 0.16750853]
[0.74143307 0.29421947 0.57667016 0.17653168]
[0.73089855 0.30454106 0.58877939 0.1624219 ]
[0.67017484 0.36168166 0.59571097 0.2553047 ]
[0.79524064 0.54144043 0.27072022 0.03384003]
[0.73239618 0.38547167 0.53966034 0.15418867]
[0.72155725 0.32308533 0.56001458 0.24769876]
[0.776114 0.54974742 0.30721179 0.03233808]
[0.77964883 0.58091482 0.22930848 0.0458617 ]
[0.82512295 0.52807869 0.19802951 0.03300492]
[0.68914871 0.33943145 0.58629069 0.25714504]]
```

y_test

```
[0. 1. 0.]
[0. 0. 1.]
[1. 0. 0.]
[1. 0. 0.]
[1. 0. 0.]
[0. 0. 1.]
[0. 1. 0.]
[0. 0. 1.]
[0. 0. 1.]
[0. 1. 0.]
[1. 0. 0.]
[0. 1. 0.]
[0. 1. 0.]
[1. 0. 0.]
[0. 0. 1.]
[1. 0. 0.]
[1. 0. 0.]
[1. 0. 0.]
[0. 0. 1.]
[0. 0. 1.]
[0. 0. 1.]
```

```

[0. 1. 0.]
[0. 1. 0.]
[1. 0. 0.]
[0. 0. 1.]
[0. 1. 0.]
[1. 0. 0.]
[1. 0. 0.]
[1. 0. 0.]
[0. 1. 0.]

```

```

[7]: #Definimos los pesos que tendra la red neuronal
#Pesos
w0 = 2*np.random.random((4, 5)) - 1
w1 = 2*np.random.random((5, 3)) - 1
#Definimos la tasa de aprendizaje
tasa_aprendizaje = 0.1
#Creamos un array donde se almacenaran los valores de error del entrenamiento
errors = []
accuracy = []

```

```

[8]: #La función sigmoide comprime los valores en el rango de 0 a 1
#se utiliza comúnmente en problemas de clasificación binaria
#y como función de activación en redes neuronales.
def sigmoide(x):
    return 1/(1+np.exp(-x))
#Esta derivada es útil en algoritmos de aprendizaje automático, especialmente
#en el entrenamiento de redes neuronales mediante el algoritmo de
#backpropagation
def derivada_sigmoide(x):
    return sigmoide(x)*(1 - sigmoide(x))

```

```

[9]: #Declaramos el numero de epocas
epocas = 100000
for i in range(epocas):
    #Datos de entrada
    capa_0 = X_train
    #Primera capa efectuamos el producto punto entre los valores de entrada y el
    ↪ peso w0
    #Ademas se aplica la funcion de activacion sigmoide
    primera_capa = sigmoide(np.dot(capa_0, w0))
    #Segunda capa efectuamos el producto punto entre la salida de la anterior
    ↪ capa y el peso w1
    #Ademas se aplica la funcion de activacion sigmoide
    segunda_capa = sigmoide(np.dot(primera_capa, w1))
    #realizamos el algoritmo de backpropagation
    #calculamos el error de la segunda capa
    segunda_capa_error = y_train - segunda_capa

```

```

#calculamos el descenso de la gradiente multiplicando el error por la
↪derivada de la segunda capa
segunda_capa_delta = segunda_capa_error * derivada_sigmoide(segunda_capa)
#Calculamos el error de la primera capa
primera_capa_error = segunda_capa_delta.dot(w1.T)
#calculamos el descenso de la gradiente multiplicando el error por la
↪derivada de la primera capa
primera_capa_delta = primera_capa_error * derivada_sigmoide(primera_capa)
#Actualizamos el valor del peso w1
w1 += primera_capa.T.dot(segunda_capa_delta) * tasa_aprendizaje
#Actualizamos el valor del peso w0
w0 += capa_0.T.dot(primera_capa_delta) * tasa_aprendizaje
#Calculamos el error medio
error = np.mean(np.abs(segunda_capa_error))
#añadimos el error encontrado a nuestro array de errores
errors.append(error)
#calculamos la precision del modelo
precision = (1 - error) * 100
#añadimos la precision a nuestro array
accuracy.append(precision)
print(f"Epoca: {i+1} Error: {error} Precision: {precision} %")

plt.plot(errors)
plt.xlabel('Entrenamiento')
plt.ylabel('Error')
plt.title("Error")
plt.show()
plt.plot(accuracy)
plt.xlabel('Entrenamiento')
plt.ylabel('Precision')
plt.title("Precision")
plt.show()

print("Precision del modelo " + str(round(precision,2)) + "%")

```

```

Epoca: 1 Error: 0.5115709757810565 Precision: 48.84290242189435 %
Epoca: 2 Error: 0.4548595950591843 Precision: 54.51404049408157 %
Epoca: 3 Error: 0.4443477837024272 Precision: 55.565221629757275 %
Epoca: 4 Error: 0.44212483133275055 Precision: 55.78751686672494 %
Epoca: 5 Error: 0.441538764197094 Precision: 55.846123580290595 %
Epoca: 6 Error: 0.4412666250689844 Precision: 55.87333749310156 %
Epoca: 7 Error: 0.4410430062716854 Precision: 55.89569937283145 %
Epoca: 8 Error: 0.4408117679727275 Precision: 55.91882320272725 %
Epoca: 9 Error: 0.44055796675112807 Precision: 55.944203324887184 %
Epoca: 10 Error: 0.44027446310510876 Precision: 55.972553689489125 %
Epoca: 11 Error: 0.4399552060412194 Precision: 56.00447939587806 %
Epoca: 12 Error: 0.43959381058391334 Precision: 56.04061894160866 %

```

Epoca: 13 Error: 0.43918318374767107 Precision: 56.081681625232896 %
 Epoca: 14 Error: 0.43871535415060287 Precision: 56.12846458493972 %
 Epoca: 15 Error: 0.43818133705023193 Precision: 56.181866294976814 %
 Epoca: 16 Error: 0.4375710022565133 Precision: 56.242899774348665 %
 Epoca: 17 Error: 0.4368729405053471 Precision: 56.31270594946529 %
 Epoca: 18 Error: 0.43607433083927 Precision: 56.392566916072994 %
 Epoca: 19 Error: 0.43516081468506496 Precision: 56.4839185314935 %
 Epoca: 20 Error: 0.43411638520899126 Precision: 56.58836147910087 %
 Epoca: 21 Error: 0.43292330396820494 Precision: 56.7076696031795 %
 Epoca: 22 Error: 0.4315620610691412 Precision: 56.84379389308588 %
 Epoca: 23 Error: 0.43001140000168775 Precision: 56.99885999983123 %
 Epoca: 24 Error: 0.42824843387241224 Precision: 57.175156612758784 %
 Epoca: 25 Error: 0.42624888547001516 Precision: 57.37511145299848 %
 Epoca: 26 Error: 0.42398748860935315 Precision: 57.60125113906469 %
 Epoca: 27 Error: 0.4214385910885168 Precision: 57.85614089114832 %
 Epoca: 28 Error: 0.4185769982079428 Precision: 58.14230017920572 %
 Epoca: 29 Error: 0.4153790872407296 Precision: 58.462091275927044 %
 Epoca: 30 Error: 0.4118242040942415 Precision: 58.81757959057585 %
 Epoca: 31 Error: 0.4078963204559107 Precision: 59.21036795440892 %
 Epoca: 32 Error: 0.40358588137236306 Precision: 59.6414118627637 %
 Epoca: 33 Error: 0.39889171158522774 Precision: 60.11082884147723 %
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C:\Users\TOSHIBA\AppData\Local\Temp\ipykernel_13572\1487659224.py:5:

RuntimeWarning: overflow encountered in exp

return 1/(1+np.exp(-x))

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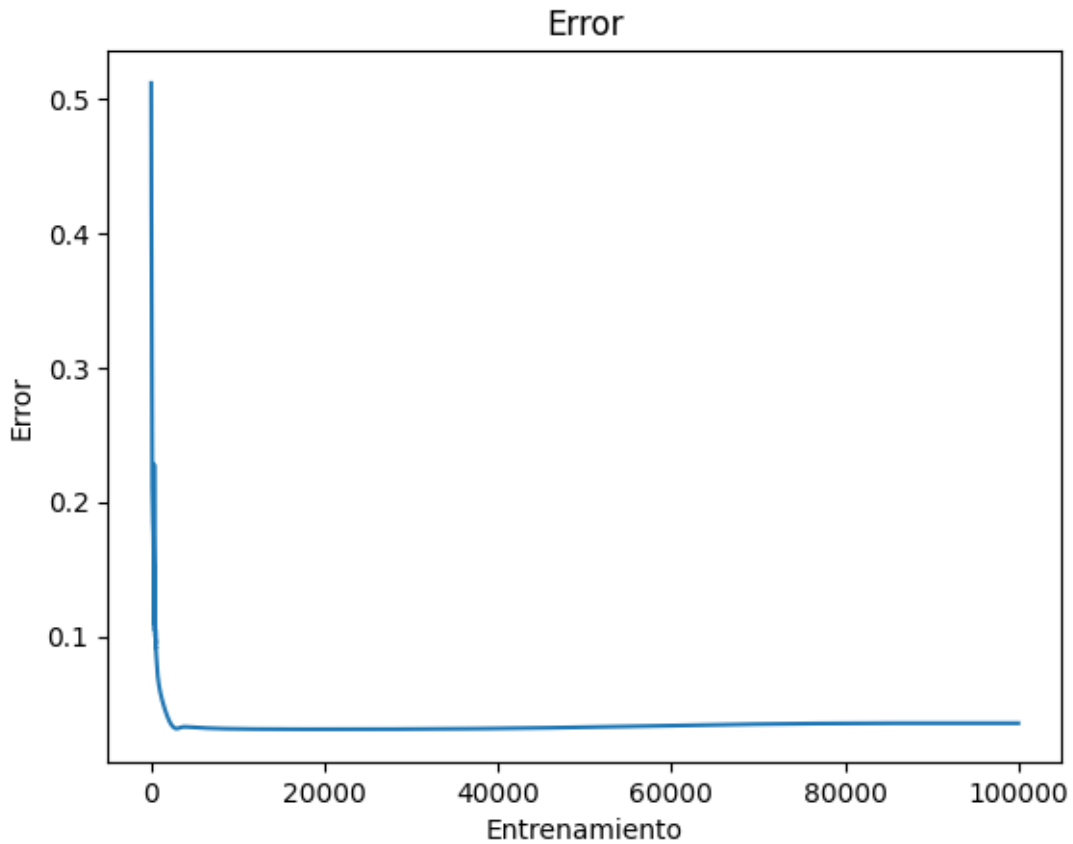
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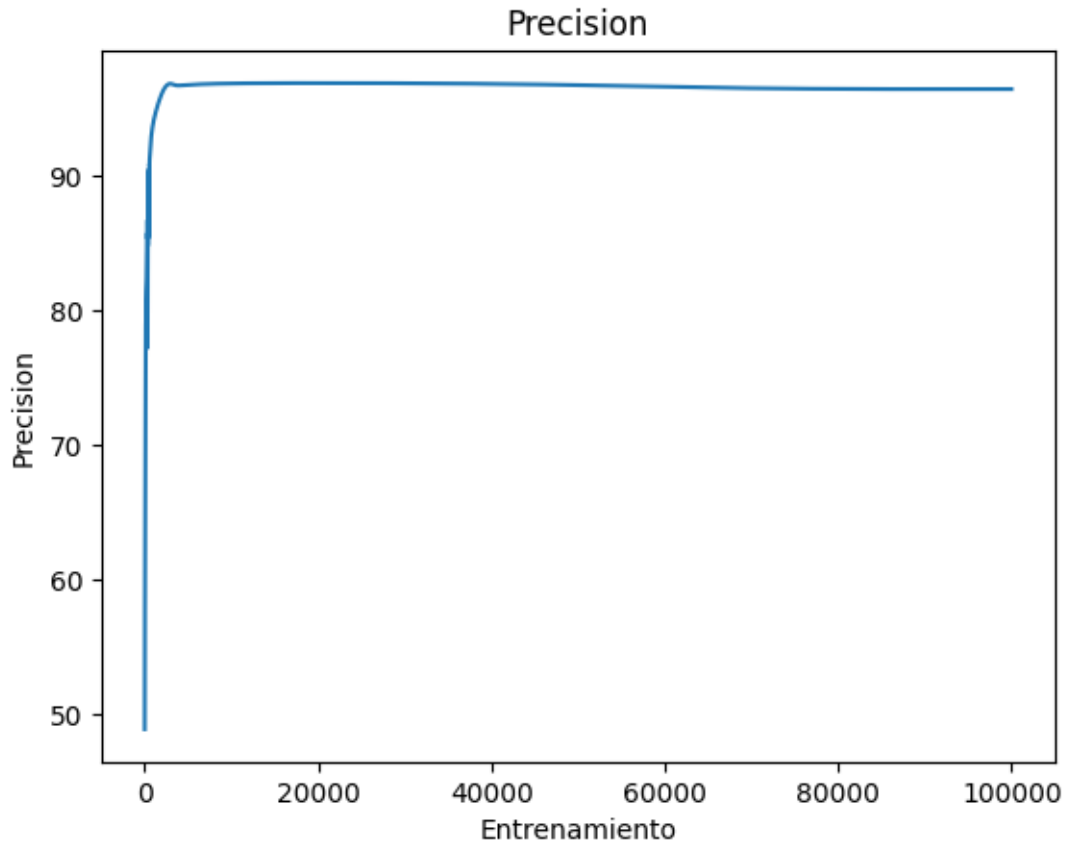
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Precision del modelo 96.47%

```
[13]: #Para calcular la precision del modelo realizaremos lo siguiente
#Los datos de entrada sera el array X_test
capa_entrada = X_test
#calculamos la salida de la primera capa
capa_1 = sigmoide(np.dot(capa_entrada, w0))
#calculamos la salida de la segunda capa
capa_2 = sigmoide(np.dot(capa_1, w1))
#Calculamos el error de la capa 2
error_capa_2 = y_test - capa_2
#calculamos el error promedio de la capa 2
error = np.mean(np.abs(error_capa_2))
#Calculamos la precision del modelo
accuracy_test = (1 - error) * 100
#Mostramos la precision del modelo
print("Precision " + str(round(accuracy_test,2)) + "%")
```

Precision 95.88%

C:\Users\TOSHIBA\AppData\Local\Temp\ipykernel_13572\1487659224.py:5:


```
RuntimeWarning: overflow encountered in exp  
return 1/(1+np.exp(-x))
```

```
[ ]:
```