Image Preprocessing
Loading Train and Test Data

Date	17 November 2022
Team ID	PNT2022TMID08567
Project Name	Detection of parkinson's disease using Machine Learning

\\IMPORTING THE NECESSARY PACKAGES AND LIBRARIES

```
import pandas as pd

import numpy as np

import seaborn as sns

import matplotlib.pyplot as plt

#PATH PROCESS

import os

import os.path

from pathlib import Path

import glob
```

\\PATH AND LABELS

```
Spiral_Train_Path =
Path("C:/Users/Administrator/Downloads/spiral20221014T134359Z-001/spiral/training")
Spiral_Test_Path =
Path("C:/Users/Administrator/Downloads/spiral20221014T134359Z-001/spiral/testing")
Spiral_Train_Path =
Path("C:/Users/Administrator/Downloads/spiral20221014T134359Z-001/spiral/training")

Spiral_Test_Path =
Path("C:/Users/Administrator/Downloads/spiral20221014T134359Z-001/spiral/testing")
Spiral_Train_PNG_Labels = list(map(lambda x:
os.path.split(os.path.split(x)[0])[1],Spiral_Train_PNG_Path))

Spiral_Test_PNG_Labels = list(map(lambda x:
os.path.split(os.path.split(x)[0])[1],Spiral_Test_PNG_Path))
```

\\TRANSFORMATION TO SERIES STRUCTURE

Sprial_Train_PNG_Path_Series= pd.Series(Spiral_Train_PNG_Path,name="PNG").astype(str)

Sprial_Train_PNG_Labels_Series= pd.Series(Spiral_Train_PNG_Labels,name="CATEGORY")

Sprial_Train_PNG_Path_Series= pd.Series(Spiral_Train_PNG_Path,name="PNG").astype(str)

Sprial_Train_PNG_Labels_Series= pd.Series(Spiral_Train_PNG_Labels,name="CATEGORY")

\\ TRANSFORMATION TO DATAFRAME STRUCTURE


```
Main_Spiral_Train_Data =
pd.concat([Spiral_Train_PNG_Path_Series,Spiral_Train_PNG_Labels_Series], axis=1)
print(Main_Spiral_Train_Data.head(-1))
```


```
Main_Spiral_Test_Data =
pd.concat([Spiral_Test_PNG_Path_Series,Spiral_Test_PNG_Labels_Series],axi s=1)
print(Main_Spiral_Test_Data.head(-1))
```