IMAGE PREPROCESSING

Team ID	PNT2022TMID18356
Project Name	Detection of parkinson’s disease prediction using Machine Learining

Loading Train data and Test data:

\\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/spiral-20221014T134359Z-001/spiral/training")
Spiral_Test_Path = Path("C:/Users/Administrator/Downloads/spiral-20221014T134359Z-001/spiral/testing")
```

```
Spiral_Train_Path = Path("C:/Users/Administrator/Downloads/spiral-20221014T134359Z-001/spiral/training")
```

```
Spiral_Test_Path = Path("C:/Users/Administrator/Downloads/spiral-20221014T134359Z-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


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

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


Spiral_Test_PNG_Path_Series = pd.Series(Spiral_Test_PNG_Path,name="PNG").astype(str)

Spiral_Test_PNG_Labels_Series = pd.Series(Spiral_Test_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))
```