IMAGE PREPROCESSING

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| Team ID | PNT2022TMID31228 |
| 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))