

## Project Development Phase (Sprint2)

Date	16 November 2022
Team ID	PNT2022TMID10815
Project Name	Detecting Parkinson's Disease using Machine Learning.

### Sprint 2 Task:

- Create a basic webpage structure
- Create a home page with disease description

### Sprint 2 Output:

Welcome saranya !
Home Predict Logout

## Detecting Parkinson's Disease using ML

Parkinson's disease (PD) is a prevalent neurodegenerative disease affecting about 1% of the world population over the age of 55 (Nussbaum and Ellis, 2003). About five million people worldwide are estimated to have PD. PD Prevalence is expected to double by the year 2030. Parkinson's disease (PD) patient care is limited by inadequate, sporadic symptom monitoring, infrequent access to care, and sparse encounters with healthcare professionals leading to poor medical decision making and sub-optimal patient health-related outcomes. Recent advances in digital health approaches have enabled objective and remote monitoring of impaired motor function with the promise of profoundly changing the diagnostic, monitoring, and therapeutic landscape in PD.

#### PARKINSON'S DISEASE

A disease that affects nerve cells in the brain and causes tremors, poor coordination and problems walking and moving.

#### CAUSES & RISK FACTORS

Both men & women are affected

Parkinson's commonly develops after age 50

Scientists have identified several genes that may lead to Parkinson's in some people, but there is no solid proof to show it's always inherited

Men are more likely to develop Parkinson's disease than women. They're more likely to experience head injury or exposure to toxins

#### SYMPTOMS OF PARKINSON'S

- Slow thinking
- No facial expression
- Drooping eyelids
- Shaking tremors
- Loss of smell or fine hand movements
- Memory loss, dementia
- Anxiety, depression
- Medications
- Stopped posture
- Constipation and weight
- Confusion
- Problems with balance or walking

#### Parkinson's Disease Symptoms

#### Stages of Parkinson's Disease

Stage 1: Develop mild symptoms but able to go about day-to-day life

Stage 2: Symptoms such as tremors and stiffness begin. In women, they develop poor posture or have trouble writing

Stage 3: Movement begins to slow down, loss of balance

Stage 4: Symptoms are severe and cause significant issues with day-to-day living, unable to live alone and will need care

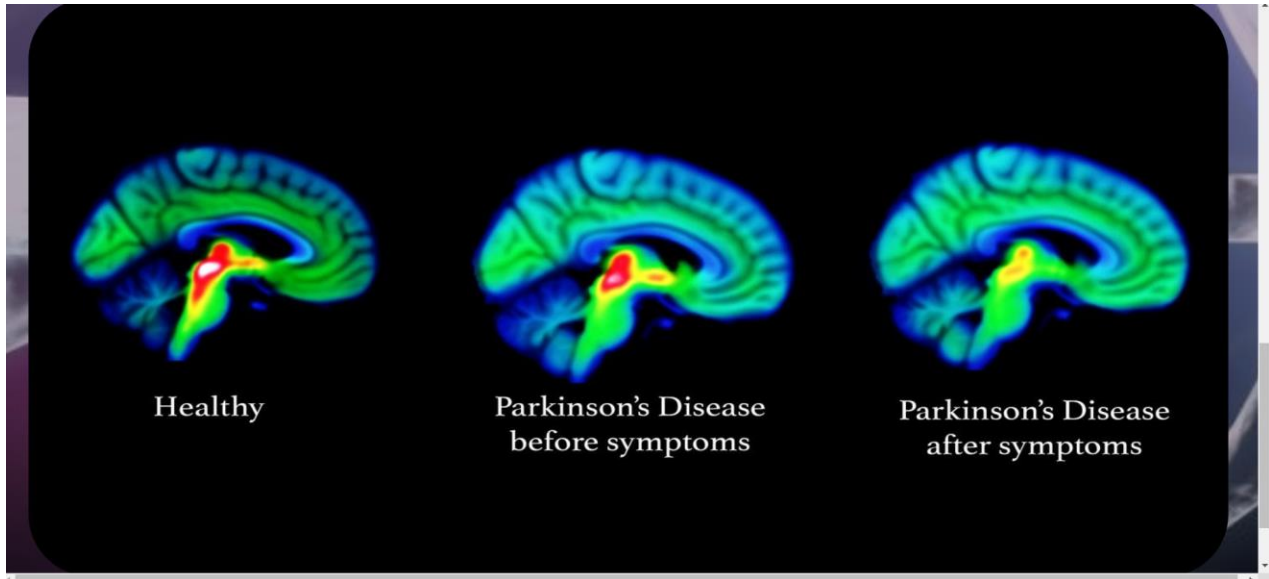
Stage 5: Walking or standing may be impossible at this point, people at this stage are often confined to a wheelchair or bed

#### (A) Normal

#### (B) Parkinson's disease

#### Brain Regions Affected by Parkinson's Disease

#### Treatment of Motor Symptoms of Parkinson's Disease



Home Predict Logout

*Prevention is better than cure!*

*Parkinson Classifier*

NOTE: Upload an spiral or wave page drawn by the user in a white sheet

Choose

Predict!