

## Project Development Phase (Sprint3)

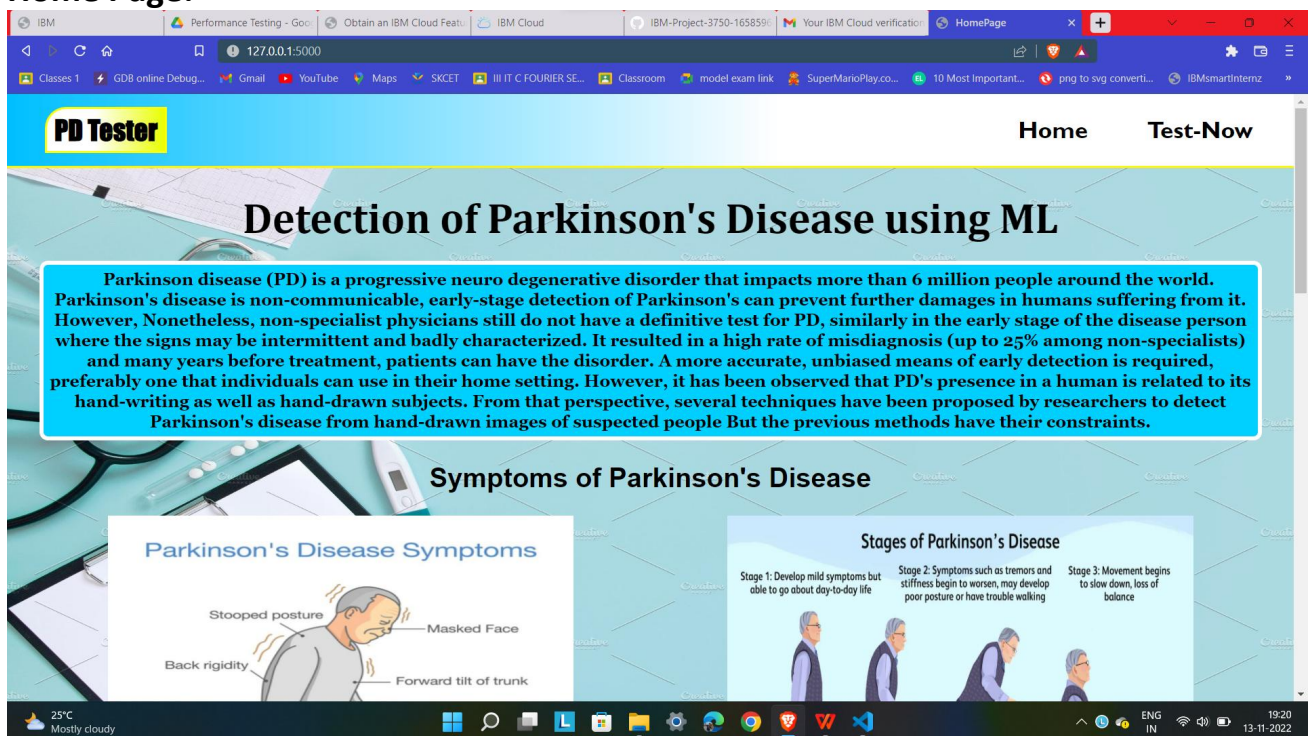
Date	6 November 2022
Team ID	PNT2022TMID03020
Project Name	Project - Detecting Parkinson's Disease using Machine Learning.

### Sprint 3 Task:

- Redirect to the home page on successful entry of the web application
- Integrate the result page with the ML model.

### Sprint 3 Output:

#### Home Page:



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127.0.0.1:5000

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**PD Tester** Home Test-Now

## Treatment for Parkinson's Disease

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

The flowchart starts with 'Diagnosis of PD'. If 'Established', it asks 'Motor impairment?'. If 'Minimal or none', it suggests 'Exercise ± MAO-B (selegiline, rasagiline)'. If 'Yes', it branches by age: 'Mild and young' leads to 'Disease progression' and 'Experimental Therapies'; 'Troublesome and elderly' leads to 'Initiate levodopa'. For 'Initiate levodopa', it lists 'Entacapone, opicapone, pramipexole, ropinirole, rotigotine, amantadine, entacapone, entacapone, apomorphine, inhaled levodopa'. If 'Add or increase levodopa', it leads to 'Motor complications' and 'Dose adjustments, continuous levodopa or DA delivery'. 'Motor complications' also leads to 'DBS or FUS'.

**Advanced Parkinson's Treatment and Coping Strategies**

The infographic shows a doctor talking to a patient. It lists several strategies: 'Prescriptions for hallucinations, dementia, or psychosis', 'Apomorphine injections', 'Mental health and nursing services', 'Pumped levodopa', 'Deep brain stimulation', and 'Physical, occupational, and exercise therapy'.

25°C Mostly cloudy

19:21 13-11-2022

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## Effect of Parkinson's Disease on Human Brain

The image shows three sagittal brain scans. The first is labeled 'Healthy' and shows normal brain structure. The second is labeled 'Parkinson's Disease before symptoms' and shows some early changes. The third is labeled 'Parkinson's Disease after symptoms' and shows significant atrophy and loss of dopamine-producing neurons in the substantia nigra.

25°C Mostly cloudy

19:22 13-11-2022

## Test-Page:

The screenshot shows a web browser window with the URL `127.0.0.1:5000/upload`. The page has a blue header with the "PD Tester" logo on the left and "Home" and "Test-Now" links on the right. The main content area has a light blue background with a medical-themed image of a stethoscope, syringe, and pills. The text "Stay Strong!! We will always be with you.!" is displayed in a large, bold font. Below this, the instructions are listed: "1. Upload an spiral or wave page drawn by the patient/user in a white sheet." and "2. Upload the image in .png, .jpg, .jpeg format." There are two buttons: a red "Choose" button and a blue "Test-Now" button. The browser's taskbar at the bottom shows the system time as 19:23 on 13-11-2022.

## For Spiral Dataset:

This screenshot shows the same PD Tester web application, but with a spiral drawing uploaded. The "Choose" button is now disabled, and a small image of the spiral drawing is displayed. Below the image, the text "Prediction : parkinson" is shown. The "Test-Now" button remains active. The browser's taskbar at the bottom shows the system time as 19:24 on 13-11-2022.



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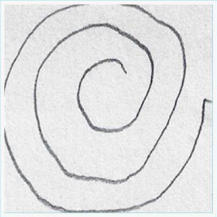
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**PD Tester** Home Test-Now

**Instructions:**

- 1.Upload an spiral or wave page drawn by the patient/user in a white sheet.
- 2.Upload the image in .png, .jpg, .jpeg format.

Choose



Prediction : healthy

25°C Mostly cloudy

### For Wave Dataset:

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**PD Tester** Home Test-Now

**Instructions:**

- 1.Upload an spiral or wave page drawn by the patient/user in a white sheet.
- 2.Upload the image in .png, .jpg, .jpeg format.

Choose



Prediction : parkinson

25°C Mostly cloudy