

## HackMSIT Idea Submission

**Team Name : Power\_Puff**

**Team Members : Anjali Jain, Aditya Kolsur, Apoorva Bhagat, Uzma Faiz**

**Track Chosen : Health/Fitness**

**Idea and Plan of Action :**

An application which can detect and help recover from the symptoms of Parkinson's, a disease which is marked by progressive loss of muscle control, which leads to trembling of the limbs and head while at rest, stiffness, slowness, impaired balance and insomnia.

With activities ranging from follow the exercise to improve the body balance, handwriting practice to improve stability of the arm, an alert sent to the emergency contacts when the patient is on the move or in trouble and relaxing music being played for a designated time to help recover from sleeplessness, the app ensures regular exercise and safety of the patient. Based on the performance and data collected, a diagnostic report will be generated weekly to see how good/bad the condition is, what improvements have been shown and if any corrections can be made to the current exercising pattern.

The exercise functionality will be implemented using the PoseNet model of ml5.js library built over Tensorflow.js

Handwriting functionality will be built using Javascript

The emergency alerts will be sent using Twilio with the entity's backend on Django

The 4 functionalities will be presented on a website built on the Django web framework