

Define CS, fit into	<b>1. CUSTOMER SEGMENT(S)</b> <b>CS</b> <ul style="list-style-type: none"> <li>• Parkinson's disease is a progressive disorder that affects the nervous system and the parts of the body controlled by the nerves.</li> <li>• Parkinson's patient have symptoms of Tremor, Slowed movement (bradykinesia), Rigid muscles, Writing changes, Impaired posture and balance, Loss of automatic movements, Speech changes.</li> </ul>	<b>6. CUSTOMER</b> <b>CC</b> <ul style="list-style-type: none"> <li>• Accurate prediction of disease.</li> <li>• Early prediction of the disease.</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <b>AS</b> <ul style="list-style-type: none"> <li>• The physician takes a medical history and does a physical examination.</li> <li>• Performs a neurological examination, testing agility, muscle tone, gait and balance.</li> <li>• PET and MRI scan also used by doctor for classification.</li> <li>• In Machine learning field Several algorithms are proposed for classification.</li> </ul>	Explore AS,
Focus on J&P, tap into BE, understand	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <b>J&amp;P</b> <ul style="list-style-type: none"> <li>• Parkinson patient have problem of rigid muscles and writing changes.</li> <li>• We have to collect the drawing of normal and parkinson patients.</li> <li>• Using the drawing, we have to detect the presence of parkinson disease by applying necessary algorithm.</li> </ul>	<b>9. PROBLEM ROOT CAUSE</b> <b>RC</b> <ul style="list-style-type: none"> <li>• Lack of data</li> <li>• New to field of study</li> </ul>	<b>7. BEHAVIOUR</b> <b>BE</b> <ul style="list-style-type: none"> <li>• Random forests are preferred over decision trees is that they are stable and are low variance models.</li> <li>• They also overcome the problem of overfitting present in decision trees. Since they use bootstrapped data and random set of features, they ensure diversity and robust performance.</li> <li>• They are immune to curse of dimensionality as they do not consider all the features at one time for individual trees.</li> <li>• The main disadvantage of random forests is their lack of interpretability.</li> </ul>	Focus on J&P, tap into BE, understand
Identify strong TR & EM	<b>3. TRIGGERS</b> <b>TR</b> <ul style="list-style-type: none"> <li>• Parkinson disease are easy to treat if we detect in early stage.</li> <li>• Provide more efficient algorithm to detect the parkinson disease in its early stage.</li> </ul> <b>4. EMOTIONS: BEFORE / AFTER</b> <b>EM</b> <p>Before:</p> <ul style="list-style-type: none"> <li>• Does not know about outcome of prediction.</li> </ul> <p>After:</p> <ul style="list-style-type: none"> <li>• Got idea to detect parkinson disease in early stage.</li> <li>• Certain about prediction and to take necessary</li> </ul>	<b>10. YOUR SOLUTION</b> <b>SL</b> <ul style="list-style-type: none"> <li>• The project aims at presenting a solution for parkinson's disease detection using suitable machine learning algorithms.</li> <li>• Algorithms such as random forest and decision trees are used for disease prediction.</li> <li>• We will load the dataset into dataframe and get the feature and label ,preprocess the data and classify it.</li> </ul>	<b>8. CHANNELS of BEHAVIOUR</b> <b>CH</b> <p><b>8.1 Online:</b></p> <ul style="list-style-type: none"> <li>• If we use online channels, then the Customer can check their result with online comparison using our platform.</li> </ul> <p><b>8.2 Offline:</b></p> <ul style="list-style-type: none"> <li>• offline channels</li> <li>• If the disease predicted then the customer need to go to Hospital for Treatment in offline mode.</li> </ul>	Extract online & offline CH of BE