# Problem-Solution Fit canvas

## Early detection of chronic kidney disease using machine learning

Version:

Define CS, fit into CL

### 1. CUSTOMER SEGMENT(S) — CS

1.Medical Researcher
2.Truck drivers
3.Diabetics patients
4.Elderly women

### 6. CUSTOMER LIMITATIONS — EG. BUDGET, DEVICES — CL

1.Accuracy is less
2.Cannot handle more data
3.Feature selection is not applied

### 5. AVAILABLE SOLUTIONS — PLUSES & MINUSES — AS

1.Prediction model using machine learning methodologies

Explore AS, differentiate

Focus on PR, tap into BE, understand RC

### 2. PROBLEMS / PAINS + ITS FREQUENCY — PR

1.Complex for large datasets
2.Disassociation between classes occurs
3.More iteratation required

### 9. PROBLEM ROOT / CAUSE — RC

1.Algorithm is not efficient for large datasets
2.Feature selection is not done

### 7. BEHAVIOR + ITS INTENSITY — BE

1.Loads the dataset,Analysis the dataset
2.Implement random forest
3.Predicts the stages of CKD algorithm

Focus on PR, tap into BE, understand RC

Identify strong TR & EM

### 3. TRIGGERS TO ACT — TR

1.High blood
2.High glocuse
3.Glomerular filteration rate

### 4. EMOTIONS — BEFORE / AFTER — EM

1.Anxiety
2.Sorrow and anger
3.Stress

### 10. YOUR SOLUTION — SL

Implement feature embedding method to reduce the unwanted features to increase model performance

### 8. CHANNELS of BEHAVIOR — CH

ONLINE

1.Anaconda navigator
2.Jupyter notebook
3.Google colab

OFFLINE

1.Excel/spreadsheet
2.Rattle GUI
3.Rapid miner-Machine learning

Extract online & offline CH of BE