**SOLUTION ROADMAP**

In the current submission, our team was able to complete below tasks:

1. Data validation for India soil types
2. Exploration of different environmental factors that are responsible for types of cultivation performed in a region
3. Developing a crop diversification model which recommends the substitute crop that could be cultivated along with other staple crops based upon various environmental factors like Ph value, rainfall, temperature, humidity etc.

The next steps towards this sustainable crop management process are as below:

1. Building region specific dashboard which will recommend judicial use of pesticides and fertilizers
2. The dashboard will also include the demand prediction for substitute crops in future which will help farmers to make a move from high yield paddy to these recommended crops
3. Developing farmer’s interface (SMS, website) for diversification advice
4. Wherever possible based on climate conditions, this will also advice to implement natural farming techniques
5. Adding more data for climate and crops diversification