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| 1. CUSTOMER SEGMENT(S) | 2. JOBS-TO-BE-DONE / PROBLEMS | 3. TRIGGERS |
| * Mainly Farmers * Employees/Workers associated with Agricultural activities * Departments of the government or news organisations seeking agricultural rainfall forecasts | * **Get proper analysis from previous data** * **Achieve correct and accurate predictions** * **Sudden change in weather and immediate rainfall or showers** * **Damage to crops due to heavy rainfall** | * Current losses and debts * Yearly crop damage due to heavy rainfall * Evolving market competition and change in demand supply |

# Project Design Phase-I: Problem Solution Fit

# Project Tittle: Exploratory Analysis of Rainfall Data inIndia for Agricultural

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| 4. EMOTIONS: BEFORE / AFTER | 5. AVAILABLE SOLUTIONS | 6. CUSTOMER CONSTRAINTS |
| * *Before : Paying debts, incurring losses , low crop production* * *After : Increase in crop production, making effective decisions, experiencing growth and profits* | * News on weather forecasting from various communication media like radio, news channels ,etc. * Announcements from the concerned authorities and notifications from connections [friends and families] on upcoming rainfalls | * To estimate the duration and volume of rainfall beforehand and take decisions accordingly * To get prediction with 100% accuracy * Unstable network connection * Limited time to make use of digital devices tp get the prediction |

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| 7. BEHAVIOUR | 8.CHANNELS OF BEHAVIOUR | 9.YOUR SOLUTION |
| * Take suggestions from concerned authorities , agricultural scientists , and other influencers to make decisions * Take decisions as per previous experiences and self analysis | 8.1 ONLINE   * Receive early notification on their digital devices, especially mobiles or smartphones, through SMS or app alerts   8.2 OFFLINE   * Community forums, meeting where farmers and other people can share ideas , discuss and decide on crop activities | * Region[district or sub- division] based analysis of previous years’ rainfall data to get the seasonal patterns with respect to the production of different sorts of crops * Building a low -cost or free ML-based application [consuming low bandwidth] to predict the rainfall of places in india with a high concentration pf agricultural activities while taking care of the trends and analysis done already |