Exploratory Analysis Of RainFall Data In India For Agriculture

**2**

**3**

**Group ideas**

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

**20 minutes**

**Brainstorm**

Write down any ideas that come to mind that address your problem statement.

**10 minutes**

Amount of Rainfall in a particular region

**Rainfall data**

Analysing historical rainfall rates

**Rainfall data**

**Person 1**

Deployment of ML models for prediction

**ML**

Deploying a Machine Learning model for prediction

**ML**

To monitor Drought using the rainfall data

**Regular Monitoring**

Monitor Pollution levels

**Regular Monitoring**

Visualize and Analyse the data

**visualization**

Data exploration and VIsualization

**visualization**

Compute after effects

of a disaster

**compute**

Plan to recover from damages

**compute**

**Somrithran**

**Person 3**

**Person 4**

Develop a prediction Algorithm



**4**

**Prioritize**

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

**20 minutes**

Use Infrastructural aids

**Importance**

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

**Feasibility**

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

Compute after effects of a disaster

Use Infrastructural aids

Good Drainage systems

Prediction of floods using the data

Collaborate with experts

Grow crops in a controlled environment

Deploying a Machine Learning model for prediction

Analyse historical rainfall rates

Collect regional rainfall data

Develop an Application

**Brainstorm**

**& idea prioritization**

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**1**

**Define your problem statement**

Rainfall has been a major concern these days. Weather conditions have been changing for time being. It may lead to many disasters. Irregular heavy rainfall may lead to the destruction of crops, heavy floods that can cause harm to human life.

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|  |  |  |
| --- | --- | --- |
| Collect regional rainfall data | Get inputs from locals | Visualize the data |
| Develop a Machine Learning Model | use classification algorithms | Select the best model |
| Create a Software Application | Good Drainage systems | Grow crops in a controlled environment |

|  |  |  |
| --- | --- | --- |
| Analyse historical rainfall rates | Monitor Pollution levels | Pre intimation of natural hazard |
| Compute after effects of a disaster | Plan to recover from damages | Deployment of ML models for prediction |
| Collaborate | Data exploration | pre- planning of |
| with experts | and VIsualization | water structures. |

|  |  |  |
| --- | --- | --- |
| Amount of Rainfall in a particular region | To monitor Drought using the rainfall data | To analyze a region using rainfall data |
| Prediction of floods using the data | Deploying a Machine Learning model for prediction | To prevent Water shortage |
| Predicting seasonal rainfall | Build Weather monitoring stations |  |

|  |  |  |
| --- | --- | --- |
| Collect Rainfall Data | Visualize and Analyse the data | Visualize and Analyse the data |
| Find the optimal algorithm | Use the prediction to plan ahead | Use Infrastructural aids |
| Create a Software Application | Water storage Structures |  |

Collect Rainfall Data

**Rainfall data**

Collect regional rainfall data

**Rainfall data**

Visualize the data

**visualization**

To analyze a region using rainfall data

**visualization**

Deploying a Machine Learning model for prediction

**ML**

Use the prediction to plan ahead

**ML**

pre-planning of water structures.

**Infrastructural Aid**

Use the prediction to plan ahead

**Infrastructural Aid**

# 

Pre intimation of natural hazard

**Natural Calamity**

Prediction of floods using the data

**Natural Calamity**

To monitor Drought using the rainfall data

**Natural Calamity**

Use Infrastructural aids

**Infrastructural Aid**

Good Drainage systems

**Infrastructural Aid**

Create a Software Application

**AppDev**

Develop an Application

**AppDev**