



# Rainfall Prediction System

A machine learning-based system that predicts next-day **rainfall** probabilities with a simple “Yes or No” result.



## Entice

Hooking interest and setting expectations?



## Enter

Welcoming the user into the prediction process



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## Engage

Delivering users are ready to act



## Exit

Ensuring users are ready to act



## Extend

Supporting user after the main session is done.



## Steps

- Discover a rain prediction website
- Click an ad about accurate rainfall forecasts



## Steps

- Enter our location into a prediction form.
- Share your city, district, or farm area.



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## Engage

- View clear “Yes” or “No” rain prediction with
- Read advice like “Bring an umbrella to be safe”



## Exit

- Set plans for travel, farming, or events
- Get alerts like “It will rain tomorrow.”



## Extend

- Share the forecast with neighbors or friends
- Receive evening weather summary



## Interactions

- Get a notification of rain prediction for your area.
- See casual messages like, “Yes, it might rain tomorrow,” “share to search”



## User goals

- Get a notification of rain prediction, for your area.
- See casual messages like, “Yes, it might rain tomorrow, or confirm your city, district, farm.



## User goals

- Find out if bring an umbrella to be safe.
- Decide if rescheduling outdoor plans.
- Confirming outdoor plans.



## User goals

- Make quick plans based on the prediction.
- Stay informed on expected weather change.
- Struggle with detailed or technical data.



## Positive outcomes

- Worries about rain prediction ws.
- Fear that predictions won't be accurate for areas.
- Download/print your rain forecast.



## Concerns

- Worry about incorrect rainouts.
- Predictions fail for greater security.
- Provide feedback on prediction.



## Positive outcomes

- Realize a simple “Do this” advice along with the forecast.
- Tailor predictions for local areas for greater accuracy.
- Offer quick links to hourly/weekly forecasts.



## Concerns

- Worry about incorrect rain gear for areas like to aim and predict.
- Plant crops in advance avoiding rainfall damage.
- Struggle with detailed or technical data.



## Concerns

- Worry about predictions won't be accurate.
- Difficult to give links to hourly/weekly forecasts.
- Struggle with detailed or technical data.



## Areas of opportunity

- Provide simple “Do this” advice with a forecast
- Tailor predictions to local areas for greater accuracy.
- Gather user feedback to improve the system for replacement.