

Phase 4: Project Planning (Presented by the Team)

In this phase, **we, as a project team**, have planned to complete the rainfall prediction project within **four weeks** through a structured workflow.

During **Week 1**, we will finalize the project requirements and collect the rainfall dataset from reliable sources. We will also preprocess the collected data by cleaning missing values and organizing it into a usable format.

In **Week 2**, we will perform **Exploratory Data Analysis (EDA)** to understand rainfall patterns, seasonal trends, and regional variations. Based on the analysis results, we will identify the most important features required for rainfall prediction.

In **Week 3**, we will develop and train machine learning models such as Linear Regression, Decision Tree, or Random Forest using the prepared dataset. We will compare the performance of these models to select the most accurate one.

In **Week 4**, we will test the selected model, evaluate its performance, and finalize the project outputs. Finally, we will prepare the project documentation, presentation slides, and demonstration for submission.

Through this planned timeline, **we aim to complete the project efficiently within four weeks while ensuring proper analysis, development, and validation of the rainfall prediction system.**