**Project Lifecycle**

**June 19: Introduction to the Project and Problem Description**

1. **Project Introduction**:
    - Provide an overview of the chosen project.
    - Explain the problem the project aims to solve.
2. **Problem Description**:
    - Detail the specific problem or challenge the project addresses.
    - Include context and background information.
3. **Tasks**:
    - Define project goals and objectives.

**June 26: Data Exploration and Problem Specification**

1. **Data Set Introduction**:
    - Describe the data set(s) being used.
    - Include sources, data types, and structure.
2. **Problem Identification**:
    - Identify problems encountered during initial data exploration.
    - Specify issues like missing values, inconsistencies, or anomalies.
3. **Solutions to Problems**:
    - Propose solutions to the identified problems.
    - Detail the steps taken to address these issues.

**July 2: Data Cleaning Techniques and Peer Review**

1. **Data Cleaning Techniques**:
    - Three ways to deal with missing value and NA/WOE.
2. **Peer Review**:
    - Review the work done by peers.

**July 9: Exploratory Data Analysis (EDA)**

1. **EDA Introduction**:
    - Describe the purpose of EDA.
    - Outline the methods used for EDA.
2. **Finding Correlations**:
    - Identify correlations among variables.
    - Use statistical methods and visualizations to illustrate findings.

**July 16: Presentation of EDA**

1. **Presentation Preparation**:
    - Create a PowerPoint presentation for business users and technical users.
    - Include key findings from the EDA, visualizations, and recommendations of models.
2. **Presentation Content**:
    - Overview of the EDA process and results.
    - Detailed explanation of correlations and insights.
    - Recommendations based on the EDA findings.

**July 23: Model Development**

1. **Model Selection**:
    - Develop three models: Linear Regression, Boosting, and Ensemble methods.

2. **Model Comparison**:
    - Compare the performance of the models using appropriate metrics.
    - Document the strengths and weaknesses of each model.

**July 30: Model Selection and Final Presentation**

1. **Best Model Selection**:
    - Select the best-performing model based on evaluation metrics.
2. **Final Presentation Preparation**:
    - Create a PowerPoint presentation.
    - Include model evaluation, selection rationale, and implementation plan.
3. **Presentation Content**:
    - Summary of the project lifecycle.
    - Detailed explanation of the selected model and its benefits.
    - Implementation plan and next steps.