1. Communication Plan:
2. Set up an agile project by using GitHub Projects
3. Milestone/ Timeline
4. Project ideation;
5. Data fetching;
6. Data exploration;
7. Data transformation;
8. Data analysis;
9. Testing;
10. Creating documentation; and
11. Creating the presentation

Objective:

Data Fetching and Data Exploration:

1. Identification of Data Source :
2. Data Collection:
3. Data Cleaning
4. Data Exploration
   1. Descriptive Statistics: Compute summary statistics such as mean, median, mode, standard deviation, minimum, maximum.
   2. Data visualization : Create visualization as histograms, bar charts, scatter plots, box plots to visualize the distribution of data, identify patterns, trends correlations, outlier and relationship between variables.
   3. Exploratory Data Analysis – Correlation Analysis, frequency tables, cross-tabulations,
5. Hypothesis Generation: Based on initial exploration, generate hypotheses or research questions.
6. Data processing : Example Feature Engineering, scaling, normalization, encoding categorical variables and other transformations to make the data suitable for modeling.
7. Modeling : If objective involve predictive modeling or machine learning, select appropriate models, train them, evaluate performance. This step also includes model selection, hyperparameter tuning, and cross validation.
8. Interpretation and Reporting : Interpret findings from data analysis, draw conclusions and communicate insights to stakeholders. This may involve creating reports, dashboards etc,
9. Iterate: Data Analysis is iterative process. Based on insights gained, refine you hypothesis, conduct further analysis and collect additional data as needed.