1- **Project Overview**
2- **Data Collection**
3- **Data Exploration :**

(dataset's structure and identify potential relationships between features……Check for missing values, duplicates, and outliers. Summarize data distributions and basic statistics.**)**

4- **Preprocessing and Feature Engineering :**
   - Handle missing data
   - Handle outliers
   - encoding categorical data, and creating interaction features relevant to churn prediction.

5- **Exploratory Data Analysis (EDA):**
   1- (Create visualizations (heatmaps, pair plots, histograms) to detect patterns, correlations, and outliers.)
   2- Advanced Data Analysis (statistical tests (e.g., t-tests, ANOVA, chi-squared tests))
   3- Feature Engineering:
   4- Data Visualization: power bi and python.

6- **Machine Learning Model :**
   1- **Model Selection**
   2- **Model Training**
   3- **Model Evaluation**
   4- **Hyperparameter Tuning**
   5- **Model Comparison**

7- **MLOps, Deployment, and Monitoring:**
   1- **MLOps Implementation:**
   2- **Model Deployment:**
   3- **Model Monitoring:**
   4- **Model Retraining Strategy:**