

Project Idea 1: Healthcare Analysis

Team Members:

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Week 1: Build Data Model, Data Cleaning, and Preprocessing.

- **Tasks**
 - **Data Preprocessing:** Build a data model, then clean and preprocess the data.
 - **Tools:** SQL, Python (pandas and Matplotlib).
- **Deliverables**
 - Cleaned dataset, ready for analysis.
 - Data preprocessing notebook.

Week 2: Analysis Questions Phase

- **Tasks:**
 - **Determine Data Analysis Questions:** Determine all possible analysis questions that can be deduced from the given dataset and would be of interest to the organization's decision makers.
 - **Tools:** SQL, Python (pandas and Matplotlib).
- **Deliverables**
 - Set of analysis questions that can be answered via the dataset.

Week 3: Forecasting Questions Phase

- **Tasks**
 - Determine a set of forecasting questions and answer them using the trends found in the given dataset.
 - **Tools:** Python (scikit-learn, pandas, and Matplotlib).

- **Deliverables**

- Visualization plots answering forecasting questions.

Week 4: Visualization Dashboard and Final Presentation

- **Tasks**

- **Build a visualization dashboard:** Build a Tableau visualization dashboard that visualize the answers to all the answered forecasting questions.
- **Final Presentation:** Prepare a report and presentation summarizing the project work, including data analysis, model development, and deployment.
- **Tools:** SQL, Python (pandas and Matplotlib), Tableau.

- **Deliverables**

- Visualization Dashboard
- Final report and presentation.