**Project Idea : Human Resources Dataset Analysis**

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

* **Tasks:**
  + **Data Preprocessing:** Build a data model and clean and preprocess the data.
  + **Tools:** SQL, Python (pandas, 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 deducted from the given dataset and would be of interest to the organization’s decision makers, e.g., what is the relation between the employees ages and their satisfaction level?
  + **Tools:** SQL, Python (pandas, 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, 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 answered questions.
  + **Final Presentation:** Prepare a report and presentation summarizing the project work, including data analysis, model development, and deployment.
  + **Tools:** SQL, Python (pandas, Matplotlib), Tableau.
* **Deliverables:**
  + Visualization dashboard.
  + Final report and presentation.