# Topic: Survival Analytics

**Instructions:**

Please share your answers filled in-line in the word document. Submit code separately wherever applicable.

Please ensure you update all the details:

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Batch Id:**

**Topic: Survival Analytics**

**Guidelines:**

**1. An assignment submission is considered complete only when correct and executable code(s) are submitted along with the documentation explaining the method and results. Failing to submit either of those will be considered an invalid submission and will not be considered as correct submission.**

**2. Ensure that you submit your assignments correctly and in full. Resubmission is not allowed.**

**3. Post the submission you can evaluate your work by referring to keys provided. (will be available only post the submission).**

**Hints:**

1. **Business Problem**
   1. **What is the business objective?**
   2. **Are there any constraints?**
2. **Work on each feature of the dataset to create a data dictionary as displayed in the below image:**

**Make a table as shown above and provide information about the features such as its Data type and its relevance to the model building, if not relevant provide reasons and provide description of the feature.**

1. **Exploratory Data Analysis (EDA):**
   1. **Summary.**
   2. **Univariate analysis.**
   3. **Bivariate analysis.**
2. **Model Building**

**4.1 Build the model on the scaled data (try multiple options).**

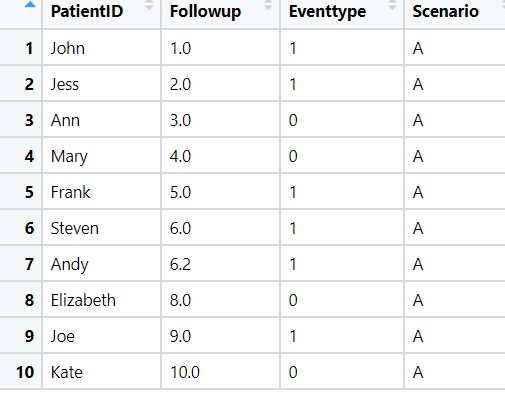
**4.2 Perform survival analytics on the given datasets.**

**4.3 Briefly explain the model output in the documentation.**

1. **Write about the benefits/impact of the solution - in what way does the business (client) benefit from the solution provided?**

**Problem Statement:**

The following dataset contains patient ID, follow up, event type, and scenarios. Build a survival analysis model on the given data.



**Problem Statement: -**

ECG of different age groups of people has been recorded. The survival time in hours after the operation is given and the event type is denoted by 1 (if dead) and 0 (if alive). Perform survival analysis on the dataset given below and provide your insights in the documentation.

A large room

Description automatically generated