

Team member's details

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College/Company: Alumni

Specialization: Data Science

Problem description and Business understanding

All Pharmaceutical companies are facing an issue of understanding the persistency of a drug regarding the prescription of the physician, and determining the number of patients who are continuing the treatment for the prescribed drug. For example, following the physician prescription that contains; the number of days that the drug should be taken, the number of hours should be between the doses, should it be before meal or after ... etc.

Due to this, one of the pharmaceutical companies named “ABC pharma” wanted to solve this problem by contacting an analytical company that will help in automating the identification process and build a classification model for the given HealthCare dataset.

Project lifecycle along with deadline

The schedule below clarifies the project lifecycle, tasks, and deadlines. The deadlines are split into two, the first draft will be every Friday, and the official one would be on Sundays. Using Github for work and tasks sharings.

Phases	Tasks	Deadlines
Ph1. Understanding the problem	<ul style="list-style-type: none">- Data understanding- Business understanding	Week7 1 st draft (09/03/2021) Official (09/05/2021)
Ph2. Data preparation	<ul style="list-style-type: none">- Data cleaning- Type of data- Data problems- Approaches used to overcome the problems in the data- Techniques used	Weeks 8 1 st draft (09/10/2021) Official (09/12/2021) Week9 1 st draft (09/17/2021) Official (09/19/2021)
Ph3. Model planning	<ul style="list-style-type: none">- Exploratory Data Analysis (EDA)- EDA performed on data- EDA recommendation	Week10 1 st draft (09/24/2021) Official (09/26/2021)

	<ul style="list-style-type: none"> - EDA presentation for business users 	
Ph4. Model building	<ul style="list-style-type: none"> - Linear model - Ensemble - Boosting 	Week11 1 st draft (09/01/2021) Official (09/03/2021)
Ph5. Communicate results	<ul style="list-style-type: none"> - Findings are shared with the stakeholders - Ppt presentation 	Week12 1 st draft (10/08/2021) Official (10/10/2021)