

Project Design Phase-II

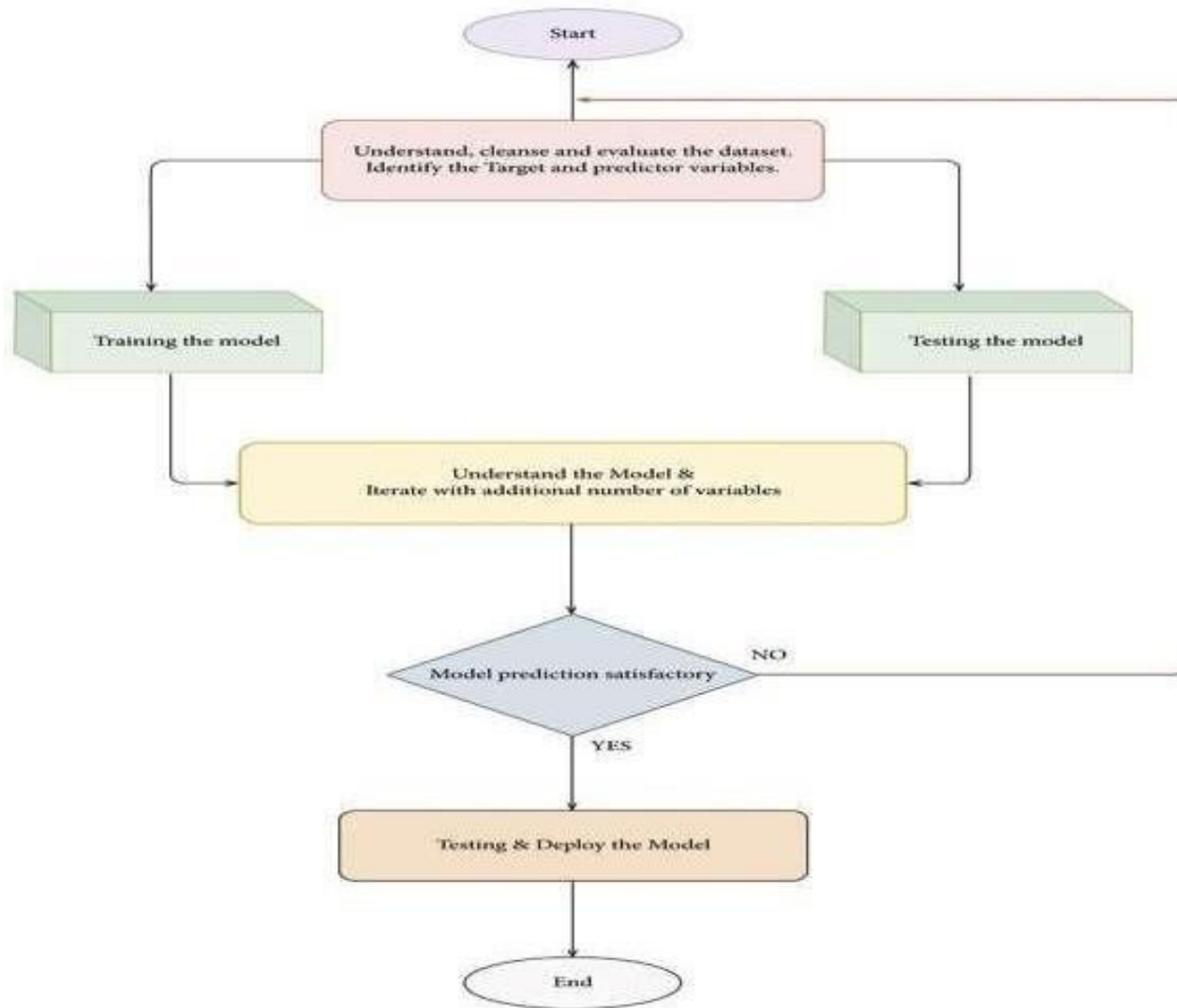
Data Flow Diagram & User Stories

Date	01 November 2023
Team ID	NM2023TMID00335
Project Name	Empowering The Future: A Literacy Rate Analysis For A Better Future

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

This diagram shows the flow of data between the different components of the solution. The Healthcare Provider and Insurance Company provide patient and healthcare data to the Cost Estimation and Prediction Service. The service then uses this data, along with machine learning algorithms, to estimate and predict the cost of hospitalization and medical care. The resulting cost estimates are then provided to the Healthcare Provider and Insurance Company. The Data Store stores and manages the healthcare data, and the Data Science team is responsible for developing and improving the machine learning algorithms used by the service.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Healthcare provider	Cost estimation and prediction	1	Use cost estimation and prediction service to provide the patient with the best possible care while minimizing costs	Cost estimates are accurate within +/-10% of actual costs	High	Medical Advisor
Insurance company	Cost estimation and prediction	2	Use cost estimation and prediction service to estimate the potential cost of covering a patient and offer competitive pricing and sustainable policies	Cost estimates are within +/-5% of actual cost	High	Insurance analyst
Patient	Cost estimation and prediction	3	Use cost estimation and prediction service to make informed decisions about healthcare and financial situation	Cost estimates are easy to understand and presented in a clear and concise manner	High	UX Designer
Data scientist	Model development and improvement	4	Use the solution to train and test machine learning models on healthcare data to improve accuracy of cost estimation and prediction algorithms	Models are able to accurately predict costs for a variety of medical procedures and patient demographics	Medium	Data Scientist
Hospital Administrator	Cost forecasting and resource allocation	5	Use cost estimation and prediction service to forecast expected healthcare costs, manage budgets, and allocate resource effectively	Forecasts are accurate within +/-10% of actual costs and resource allocation leads to improved patient outcomes and cost savings	High	Hospital administrator
Healthcare researcher	Cost analysis and trend identification	6	Use cost estimation and prediction service to analyze healthcare cost trends, identify opportunities for cost savings, and contribute	Trend analysis accurately identifies areas of high cost and potential areas for cost savings	Medium	Healthcare analyst

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			to the development of more efficient and effective healthcare systems			