

# Medico Private Limited Business Requirements Document (BRD)

*Medico Private limited*

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# 1 Introduction

## 1.1 Project Summary

### 1.1.1 Objectives

- The objective of dataiku is to discover patterns in your data by using different ML models and then make predictions.
- Enhancing performance of client's business of Medical devices by transforming the lead into opportunity
- Convert the data into graphical representation for internal teams to understand the business better
- Business owner will be able to take decisions should be based on an understanding of the business domain and the stakeholder needs

### 1.1.2 Background

The purpose of machine learning is to discover patterns in your data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. It is to get useful insights for marketing leads, pipeline and opportunity processes. Clients will be able to focus on potential lead which is able to convert into opportunity and use the graphical view for interpreting the various trends of sales and other quantitative measures available from the data and therefore make the changes in the organization accordingly.

### 1.1.3 Business Drivers

- Client is looking for having all the data in one place in graphical format
- Various internal teams within the client organization are going to use charts for the future research
- Client is responsible for managing all the data from various sources and dumping them at one place for further processing

## 1.2 Project Scope

It is to get a category for customer review. Clients will be able to use the graphical view for interpreting the various emotions of the clients and other quantitative measures available from the data and therefore make the changes in the organization accordingly.

### 1.2.1 Scope Functionality

Sales team

- Different Graphical Charts
- Prediction Model
- Expected Amount
- Complex Pattern
- Lead which converts into opportunity

### 1.3 User Roles

Role	Description
Dataiku_Role	<ul style="list-style-type: none"><li>▪ Establish connection with snowflake</li><li>▪ Lead convert into opportunity</li><li>▪ Make different Charts</li><li>▪ Get useful insights</li><li>▪ Make predictions</li></ul>

### 1.4 System Perspective

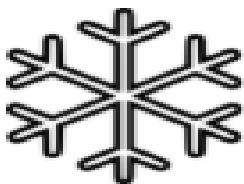
#### 1.4.1 Assumptions

- Data is cleaned and transformed
- You have to check the data for garbage-in/garbage-out i.e data quality.
- Data is historical
- Large data is present because “The model’s performance was not good but we expect better performance if we have more data”
- Admin will manage the data access control
- Erroneous records are not considered for calculations

#### 1.4.2 Constraints

- Trainings
- Additional dashboards or changes in features & functionalities described in document may require changing the time estimation of the project development
- Timeline for enterprise platform updates will impact development & testing, unless the environment is a sandbox

## 2. Architecture



Snowflake



data  
iku

Dataiku

### 3 Business Process Overview

- Client gets graphical data
- Client can focus on potential lead which can convert into opportunity
- You can predict your future decision
- They able to get insightful details
- View product performance
- Proceed for filtering region wise performance of the products
- End of review process.

### Business Requirements

The requirements in this project are prioritized as follows:

Value	Rating	Description
1	Critical	Most Urgent and most important requirements.
2	High	Urgent but not as critical requirements and important requirements
3	Medium	Important but not urgent requirements
4	Low	Low Important and not urgent requirements
5	Future	Future scope requirements.

## 4.1 Functional Requirements

Req	Priority	Description	Rationale
FR-001	1	Asset and Sensor Neutrality	The key consideration is whether the solution functions in heterogeneous plant environments with data from all production assets
FR-002	2	Alert Generation	When a machine degradation or potential asset failure is detected, this is communicated to the relevant facility stakeholders
FR-003	3	Machine Learning methodology	Each Predictive Asset Maintenance solution is based on a Big Data methodology
FR-004	4	Asset Visualization	The key considerations when defining this requirement are the visualization of machine behavior and the ability to depict the health of machinery or the entire facility, and take specific action as a result.
FR-005	5	Purpose	Dataiku provides a centralized data platform that moves businesses from scale and traditional analytics to Enterprise AI

## 4.2 Non-Functional Requirements

ID	Requirement
NFR-001	Accuracy and performance: Most ML work reports on algorithm accuracy , how “correct” the output is compared to reality
NFR-002	Transparency: The results of ML can have significant real-world impact
NFR-003	Reliability :Work has considered reliability in ML, e.g., looking at the reliability of individual ML predictions
NFR-004	Maintainability :The ease with which the existing software can be modified.

NFR-005	Interoperability :The ability for two systems to communicate effectively
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