

MACHINE LEARNING HACKATHON

Yenapova Medical College wants to understand their patients' data from the gynaecology department. You have been given some infant and mother's information who have given birth to their baby. Data Analyst have collected the data from hospital. With the help of data science and machine learning, you should understand the relationship between mother and their baby.

1. Childbirth.xlsx

- Build an effective data pipeline to
- Clean the data
- Perform feature engineering
- Analyze and visualize the data
- Produce a minimum of 10 insights to report to your client.

Dataset Description

Baby id:	Unique id given to baby
Crying date:	The date at which baby's crying details have been taken
Crying time:	The time at which baby's crying details have been taken.
Crying seconds:	This field tells for how long baby has cried in seconds
Feeding date:	The date at which baby's feeding details have been taken.
Feeding time:	The time at which baby's feeding details have been taken.
Bottle amount:	Milk drank by baby
Pumping date:	The date at which baby's pumping details have been taken.
Pumping time:	The time at which baby's pumping details have been taken.
Pumping left:	Milk pumping rate from left breast of mother
Pumping right:	Milk pumping rate from right breast of mother
Sleeping date:	The date at which baby's pumping details have been taken.
Sleeping time:	The time at which baby's pumping details have been taken.
Sleeping seconds:	This field tells for how long baby has slept

FirstTimeParent:	There are 2 values which tells whether mother is giving birth to baby first time or not
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2. Birth.xlsx

- Build a data pipeline to clean the data, perform statistical analysis and build regression model to understand relation between mother (age,weight and height) and baby's weight
- Evaluate the model's performance and interpret the result.

Dataset Description

Mom weight:	Weight of the mother
Mom height :	Height of the mother when she gave birth to baby
Mom age	Age of mother
Mom Religion:	Different religions like hindu,muslim and christianity are present
Mom gender:	Gender is female
Baby weight:	Weight of baby after delivery

Best Wishes :)
Team Board Infinity