



# WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR

## *Heart Analysis and Prediction*

DATA ANALYTICS & BUSINESS INTELLIGENCE

**THIRD YEAR SPONSORED PROJECT PRESENTATION**

Do your part, Care for your HEART!!!

# OUR TEAM: EQUINOX



Akarsha  
Jain



Mitali  
Gangwal



Kushal  
Gaikwad



Shreyas  
Deodhare

UNDER THE MENTORSHIP OF – **Mr. Rajshekhar Bashetti**, Associate Director at  
IQVIA INDIA, Bangalore, India

UNDER THE GUIDANCE OF – **Mr. M. A. MAHANT**

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# OVERVIEW OF OUR TOPIC!!!

According to the CDC, heart disease is one of the leading causes of death for people of most races in the US (African Americans, American Indians and Alaska Natives, and white people). About half of all Americans (47%) have at least 1 of 3 key risk factors for heart disease: high blood pressure, high cholesterol, and smoking. Other key indicators include diabetic status, obesity (high BMI), not getting enough physical activity or drinking too much alcohol. Detecting and preventing the factors that have the greatest impact on heart disease is very important in healthcare.

# PROBLEM STATEMENT

- Create a mini project that is based on the data analytics and business intelligence.
- The dataset come from the CDC and is a major part of the Behavioral Risk Factor Surveillance System (BRFSS), which gather data on the health status of U.S. residents.. It contains the parameters such as Age Category,Physical Health ,Mental Health , Physical Activity ,Sleep Time and many more.....

# SYSTEM ARCHITECTURE

Data Collection and  
setting up the  
Objective for the  
Project



Organizing the  
Data into Excel  
sheets



Analyze the Data  
collected and  
interpreting it



Create an interactive  
Dashboard in excel that  
contains Pivot Charts ,Slicers,  
Maps and various Graphs



Build a website  
using Flask



Review the Model and  
test its outcomes for  
various test cases



Build a Predicting  
Model using Machine  
Learning



Review the Dashboard  
and test its outcomes  
for various test cases



Deploy the website  
using Heroku

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# METHODOLOGIES USED:

Methodologies used => WATERFALL MODEL.

# SOFTWARE AND HARDWARE REQUIREMENTS

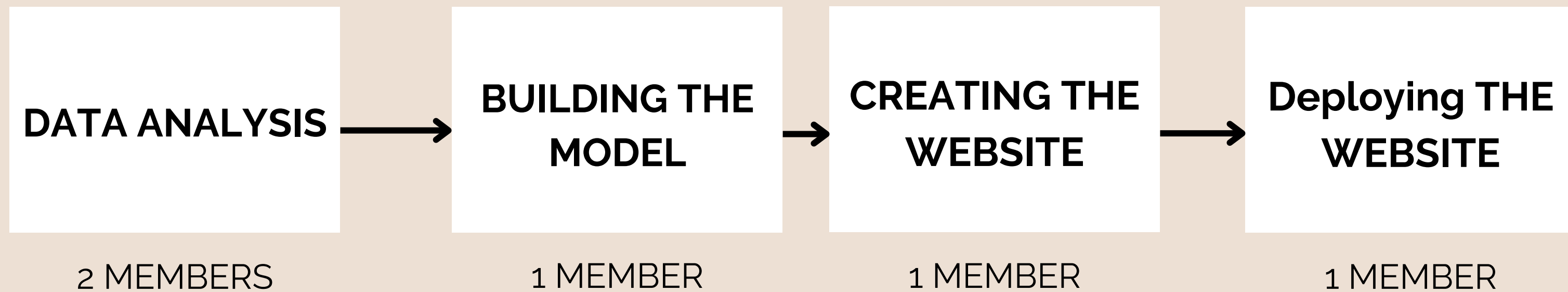
## Software

- MS EXCEL
- Python
- Flask
- Google Colab
- Heroku

## Hardware

- LAPTOP
- PROCESSOR –
- i5 OR ABOVE
- RAM –8GB
- HARD DISK UTILIZATION –  
up to 500 mb

# WORK DISTRIBUTION



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Thank you  
for listening!

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