# HEART DISEASE PREDICTION

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# Introduction

## Introduction

- The World Health Statistics 2012 report enlightens the fact that one in three adults worldwide has raised blood pressure - a condition that causes around half of all deaths from stroke and heart disease.
- Heart disease, also known as cardiovascular disease (CVD), encloses a number of conditions that influence the heart – not just heart attacks. Heart disease was the major cause of casualties in the different countries including India.
- The diagnosis is often made, based on doctor's experience knowledge. This leads to unwanted results  excessive medical costs of treatments provided to patients. Therefore, an automatic medical diagnosis system would be exceedingly beneficial.

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# Techincal Keyword

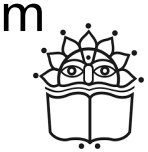
- Classification
- Machine Learing
- Heart Disease Prediction
- Training And Testing

# Problem Statement

- Heart disease can be managed effectively with a combination of lifestyle changes, medicine and, in some cases, surgery. With the right treatment, the symptoms of heart disease can be reduced and the functioning of the heart improved.
- The overall objective of my work will be to predict accurately with few tests and attributes the presence of heart disease. Attributes considered form the primary basis for tests and give accurate results more or less.
- Data mining holds great potential for the healthcare industry to enable health systems to systematically use data and analytics to identify inefficiencies and best practices that improve care and reduce costs.

# Algorithms/Methods/Technology

- There are four phases that involve in the spiral model:
- 1) Planning phase - Phase where the requirement are collected and risk is assessed. This phase where the title of the project has been discussed with project supervisor. From that discussion, Heart Prediction System has been proposed.
- 2) Risk analysis Phase - Phase where the risk and alternative solution are identified.
- 3) Engineering phase - At this phase, a software are created and testing are done at the end this phase.
- 4) Evaluation phase - At this phase, the user do evaluation toward the software. It will be done after the system are presented and the user do test whether the system meet with their expectation and requirement or not. If there is any error, user can tell the problem about system.



# software Requirement

- Operating System Any OS with clients to access the internet
  - Network Wi-Fi Internet or cellular Network
- Visio Studio Create and design Data Flow and Context Diagram

# Conclusion

The proposed system is GUI-based, user-friendly, scalable, reliable and an expandable system. The proposed working model can also help in reducing treatment costs by providing Initial diagnostics in time. The model can also serve the purpose of training tool for medical students and will be a soft diagnostic tool available for physician and cardiologist.

# References

1]Platform : Operating System: Windows 7 or above,Ubuntu 12 or above
2]IDE: Jupyter Notebook,Google Colab Notebook 3] Programming Language : Python

# Thanking You Slide

We hope that our project on Heart Disease Prediction will help the society by knowing the disease before only and cure the disease accordingly.

# The End