**CHAPTER FIVE**

# SUMMARY, CONCLUSION & RECOMMEDATION

# 5.1 SUMMARY

The goal of the project is to develop a web-based application that can predict the likelihood of a person developing heart disease using machine learning. To do this, the app will need to be fed data about a person's medical history, lifestyle habits, and other relevant factors. This data will then be used to train a machine learning model to make predictions about the likelihood of that person developing heart disease. The app will be built using a combination of web development technologies such as HTML and CSS for the front-end interface, and Python and possibly some additional libraries like Flask for the back-end logic and machine learning model. The app will be hosted on a web server and can be accessed through a web browser. Users of the app will be able to input their data through a form on the app's website, and the machine learning model will use this data to make a prediction about their likelihood of developing heart disease. The app will then display the prediction to the user, along with information about how to reduce their risk of developing heart disease. Overall, the goal of the project is to provide a convenient and easy-to-use tool that can help people better understand and manage their risk of developing heart disease.

# 5.2 CONCLUSION

This Project shows the overviews of existing methodologies and literature review of heart disease prediction systems which helps us to improve our method. In our approach, using the heart patient’s dataset from Kaggle UCI Dataset, we analyzed a particular machine learning classification algorithms to predict the heart disease on the web platform. The analysis shows 85% accuracy in SVM. Further extension of this work is to get 100% accuracy to detect heart disease using more updated machine learning techniques. For enhancing user accessibility, research will be extended by developing an android app.

# 5.3 ABBREVIATIONS

BP, Blood Pressure; PA, Physical Exercise; RF, Random Forest; LR, Logistic Regression; HDPS, Heart Disease Prediction System; ANN, Artificial Neural Network; FP, false positive; SVM, support vector machine; TP, true positive; DT, Decision Tree.

# 5.4 RECOMMEDATION

The development of a web-based application to predict heart disease using machine learning has the potential to significantly impact healthcare by providing doctors and patients with a tool for early detection and prevention of heart disease.