

HEART DISEASE PREDICTION

OBJECTIVE

- ▶ Development of a predictive model for Prediction of Heart Disease for hospitals and people. The model will detect whether the patient can have chances of heart disease or not.

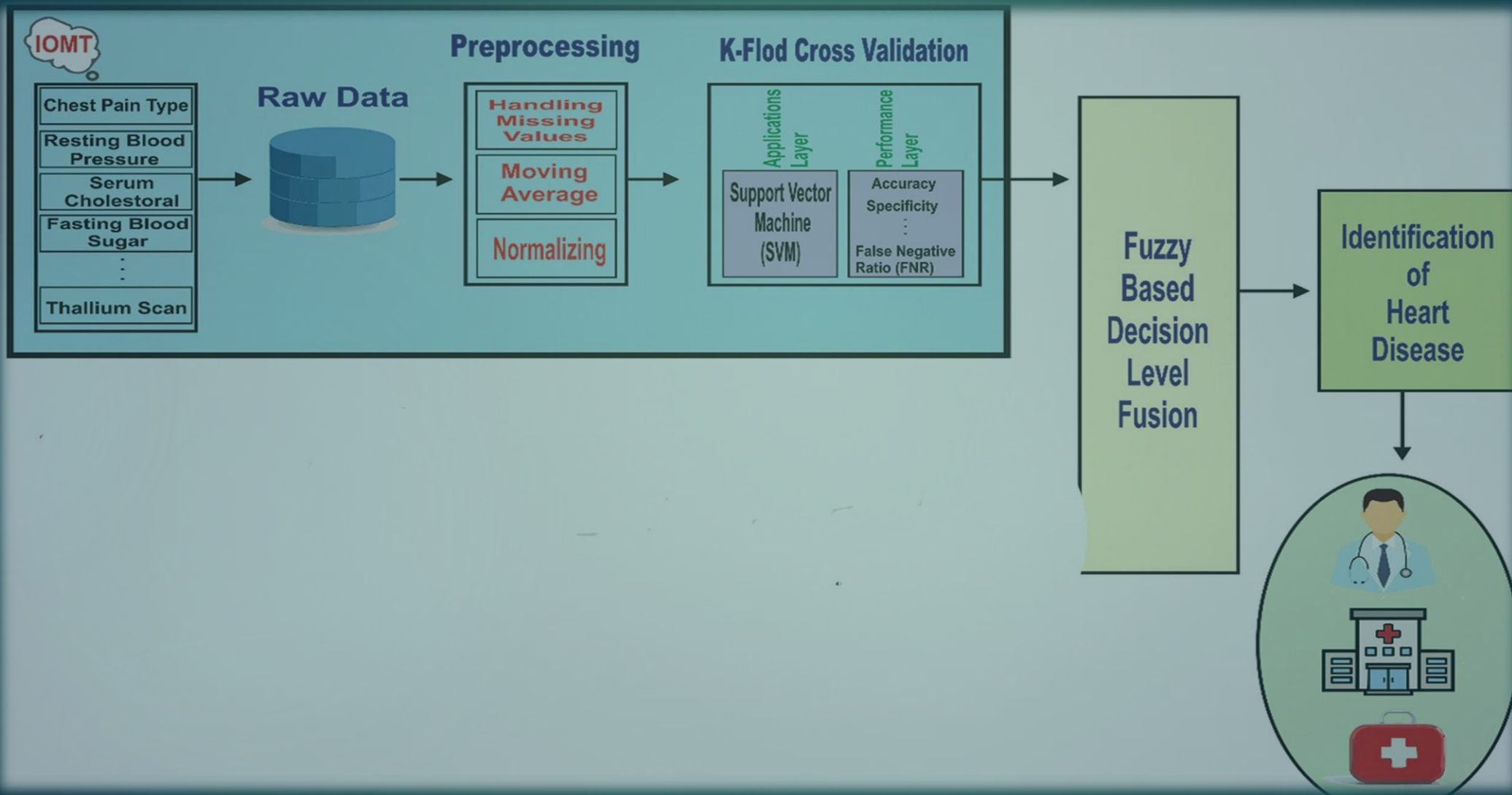
BENEFITS:

- Detection of Heart Disease
- Gives better insights of patients
- Helps in easy flow for managing resources
- Heart disease is predicted

DATA SHARING AGREEMENT:

- ▶ Sample file name (healthcaredata.csv)
- ▶ Number of Columns (14)
- ▶ Column names(age,sex,cp,trestbps,cholesterol,fbs,restecg,thalach,exang,oldpeak,slope,ca,thal,target)
- ▶ Column data type (Int)

ARCHITECTURE



Data Insertion in Database:

Inserting the data: uploading the CSV file .

- ▶ Checking the null values in the data.
- ▶ Going through the size and shape of the data.
- ▶ Checking the Data type

Model Training:

Data Export from Db :

The accumulated data from db is exported in csv format for model training

Data Preprocessing:

Performing EDA to get insight of data like identifying distribution , outliers ,trend

among data etc.

Check for null values in the columns. If present impute the null values.

Encode the categorical values with numeric values.

Model Selection –

- ▶ During this project, we have tried 5 algorithms for experiments and they are Logistic Regression , SVM, linear regression, Random Forest and Decision tree.
- ▶ We calculate the AUC scores for models and select the model with the best score.
- ▶ All the model are saved for use in prediction