### RAJESWARI VEDACHALAM GOVT.ARTS COLLEGE.

**DEPARTMENT OF BCA** 

Team members:

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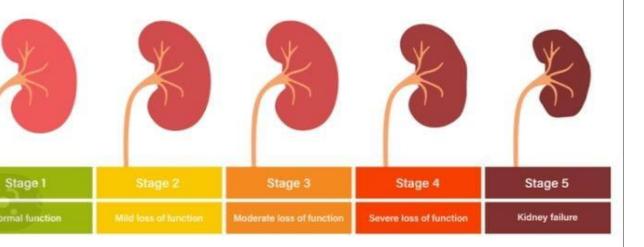
S.Thenmozhi

#### PROJECT TITLE

EARLY PREDICTION FOR CHRONIC KIDNEY DISEASE DETECTION: A PROGRESSIVE APPROACH TO HEALTH MANAGEMENT

# CHRONIC KIDNEY DISEASE

#### STAGES OF CHRONIC KIDNEY DISEASE



- Involves progressive loss of kidney function , irreversible
- Defined as either presence of
  - Kidney damage
    - Glomerular filtration rate(GFR)

#### **CKD-RISK FACTORS**

- Diabetes Mellitus
- Hypertension
- Obesity
- Metabolic Syndrome
- \* Kidney Stones
- Age and Race

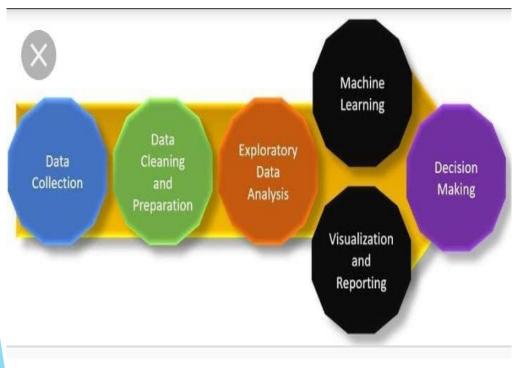
### MILESTONE TO COMPLETE THE PROJECT

- Define problem\problem understanding
- Data collection and preparation
- Exploratory data analysis
- Model building
- Performance testing and evaluate the result
- Model deployment
- Project demonstration and documentation

### Milestone1: Define Problem\Problem Understanding

- Specify the business problem
- Business requirements
- Literature Survey
- Social or Business Impact

### Milestone 2: Data Collection and Preparation



- Collect the dataset
- Importing the libraries
- Read the dataset
- Data Presentation
- Rename the Columns
- Handling Missing Values
- Handling Categorical Columns
- Label Encoding for Categorical Columns
- Handling Numerical Columns

## Milestone 3: Exploratory Data Analysis

- Descriptive Statistical Analysis
- Visual Analysis
- Univariate Analysis
- Bivariate Analysis
- Multivariate Analysis

### Milestone 4: Model Building

- Training the model in multiple
- ANN model
- Random Forest Model
- Decision Tree Model
- Logistic Regression
- Testing the Model

# Milestone 5: Performance Testing & Evaluate the Results

- \*Testing Model with Multiple Evaluation
- Evaluate the Results

## Milestone 6: Model Deployment

- Save the Best Model
- Integrate with Web Framework
- Building html pages
- Building python code
- Run the web application

# Milestone 7: Project Demonstration&Documentatio

- Record Explanation video
- Project Documentation

#### **THANK YOU**