

Cardio Care: AI-Powered Cardiovascular Disease Diagnosis & Treatment

Revolutionizing heart health with AI. Early diagnosis and personalized treatment can significantly reduce mortality.



The Need for Early Diagnosis

1

Leading Cause of Death

CVDs are responsible for 18 million deaths annually.

2

Limited Access

Many lack access to specialists in rural areas.

3

Expensive Methods

Traditional diagnostics are costly and time-consuming.

Cardio Care: Our AI Solution

Quick Diagnosis

AI analyzes health metrics for potential diseases.

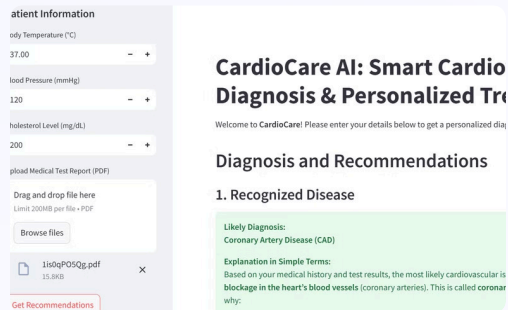
Personalized Plans

Customized treatment with diet, exercise, and medicine.

Affordable Access

Health recommendations for everyone.

How CardioCare Works



atient Information

Body Temperature (°C)
37.50 - +

Blood Pressure (mmHg)
120 - +

Cholesterol Level (mg/dL)
200 - +

Upload Medical Test Report (PDF)
Drag and drop file here
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15.8KB

Get Recommendations

CardioCare AI: Smart Cardio Diagnosis & Personalized Treatment

Welcome to CardioCare! Please enter your details below to get a personalized diagnosis and recommendations.

Diagnosis and Recommendations

1. Recognized Disease

Likely Diagnosis:
Coronary Artery Disease (CAD)

Explanation in Simple Terms:
Based on your medical history and test results, the most likely cardiovascular condition is a blockage in the heart's blood vessels (coronary arteries). This is called coronary artery disease (CAD).

Data Input
Input health data.



AI Recognition
AI predicts diseases.



Treatment Generation
Customized health plans.



Real-Time Analysis
Enhanced accuracy.

Key Features of Cardio Care

1

AI-Powered Diagnosis

Detects diseases based on health metrics.

2

User-Friendly Interface

Accessible via web browsers.

3

Affordable & Scalable

Can be expanded to other conditions.

2. Recommendations

Jane Smith's Personalized Care Plan

1. Diet Plan

Focus: Lower sodium, reduce cholesterol, manage blood sugar, and boost iron.

Foods to Eat:

- **Vegetables:** Spinach, broccoli, carrots, kale (fresh or steamed, not canned).
- **Fruits:** Berries, apples, oranges (avoid sugary juices).
- **Whole Grains:** Oats, quinoa, brown rice, whole-grain bread.
- **Lean Proteins:** Skinless chicken, turkey, fish (salmon, mackerel), tofu, lentils.
- **Healthy Fats:** Avocado, olive oil, nuts (almonds, walnuts).
- **Iron-Rich Foods:** Spinach, lentils, fortified cereals (to help with mild anemia).

Foods to Avoid:

- **High-Sodium:** Processed meats (bacon, deli meats), canned soups, salty snacks.



Technologies Used

Deep Learning Model

DeepSeek AI for disease prediction.

Data Processing

PyPDF2 extracts medical report text.

Web Interface

Streamlit creates an interactive web app.

Demo & Output

1

Recognized Disease

AI predicts cardiovascular condition.

2

Personalized Recommendations

Diet, lifestyle, exercise, medicine, and prevention.

Patient Information

Body Temperature (°C)

37.00

Blood Pressure (mmHg)

120

Cholesterol Level (mg/dL)

200

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Get Recommendations

Deploy

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Welcome to CardioCare! Please enter your details below to get a personalized diagnosis and treatment plan.

Diagnosis and Recommendations

1. Recognized Disease

Likely Diagnosis:

Coronary Artery Disease (CAD)

Explanation in Simple Terms:

Based on your medical history and test results, the most likely cardiovascular issue is **narrowing or blockage in the heart's blood vessels** (coronary arteries). This is called **coronary artery disease**. Here's why:



Conclusion & Future Scope

CardioCare is a movement towards AI-driven medical accessibility.

Future plans: expand disease detection and improve accuracy.

Join us in revolutionizing healthcare with AI!