Omdena Local Chapter Project

This user interface is part of the Omdena San Jose, USA, Local Chapter project titled "Exploring the Chronic Disease Risk Using NHANES Data in the U.S.", implemented by Shakiba Rahimiaghdam.

The project developed a machine learning-based CVD risk estimation tool using **demographic**, **clinical**, and **lifestyle** data from the NHANES dataset (2017–2020). It empowers users to receive real-time personalized predictions, making advanced health insights more accessible.



Cardiovascular Disease (CVD) Risk Estimation

 $\label{thm:continuous} \mbox{Enter your details below. The model will estimate your risk of cardiovascular disease.}$

Enter Your Details

50.00	
0.00	100.00
Ever Told: High Blood Pressure? (e.g., Select Yes or No)	
• Yes • No	
• Yes	
○ No	
Angina? (e.g., Select Yes or No)	
Yes No	
	(2مئد منام المخ
Metal Objects in Body? (e.g., Do you have any artificial joints, pins, plates, metal suture material, or other me Yes	tat objects?)
○ No	
Taking Cholesterol Meds? (e.g., Select Yes or No)	
Yes	
○ No	
LDL-Cholesterol (mg/dL)? (e.g., Range: 0 - 300 mg/dL) 150.00	
•	222 24
0.00	300.00
Arthritis? (e.g., Select Yes or No)	
Yes No	
Psoriatic Arthritis? (e.g., Select Yes or No)	
• Yes	
○ No	
Hip Swelling? (e.g., Select Yes or No)	
Yes No	
Taking BP Medication? (e.g., Select Yes or No)	
• Yes	
○ No	
Total Cholesterol (mg/dL)? (e.g., Range: 100 - 300 mg/dL)	
200.00	
100.00	300.00
Smoking-Related Disease Diagnosis? (e.g., Have you ever been told you have a smoking-related disease?)	
● Yes ○ No	
Poverty Income Ratio? (e.g., Range: 0 - 5+)	
2.50	
0.00	5.00
Waist Circumference (cm)? (e.g., Range: 60 - 150 cm) 100.00	
50.00	150.00
Estimate CVD Risk	
Estimated CVD Risk Probability: 73.70%	