

HCL TECHNOLOGIES INTERNSHIP

MACHINE LEARNING

TOPIC: **Heart disease prediction and reporting**

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SCOPE:

- **Context** :The Framingham Heart Study produced sex-specific coronary heart disease (CHD) prediction functions for assessing risk of developing incident CHD in a white middle-class population. Concern exists regarding whether these functions can be generalized to other populations.
- **Objective** : To test the validity and transportability of the Framingham CHD prediction functions per a National Heart, Lung, and Blood Institute workshop organized for this purpose

The Framingham CHD prediction functions were developed to help clinicians estimate the absolute risk of any individual patient developing clinically manifest disease. We sought to demonstrate the external validity of the Framingham functions by examining their performance in 6 different well-described population-based cohorts that reflect a wide range of ethnic diversity.

FLOW DIAGRAM:



