

Project Proposal for ADVANCED AUTOMATION

TITLE: Using Data Analysis for Heart Attack prediction

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Objectives: In this project a dataset of patient information will be used to train algorithmic models and use those models to predict a heart attack.

Requirements: To accomplish this, a number of models will be tried, until a satisfactory classification accuracy is achieved. We will not limit ourselves to a specific classification model in this proposal, but decision tree models, gradient boosting algorithms and deep learning will be examined to reach the result.

Remarks: The dataset contains patient's age, sex. Also the presence of an exercise induced angina, the number of major vessels, whether or not the patient experiences chest pain, the resting blood pressure, the cholesterol level, blood sugar and the maximum heart rate achieved.