

Project name Organ failure following cardiac surgery – the use of AI for prediction modelling

Project owner _

Purpose

What is the intent of this project? Why are we doing this project?

This project aims to see if AI can be used make models that are more precise than humans when it comes to predicting and detecting complications in patients before surgery

Scope

What does this project contain?
What does this project not contain?

To create an AI model that classifies and predicts the risk of complications after a patient has undergone cardiac surgery. This project will not contain medical theory as to WHY the risk may be.



Success Criteria

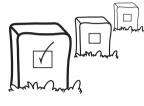
What do we need to achieve in order for the project to be successful? How can the Success Criteria be measured?

We need to either achieve a successful model or a be able to conclude that there are no direct correlation features from data set and a chosen target variable. The success of our model can be measured by the use of statistical evaluations.



Milestones

When will we start the project and when is the final deadline? What are the key milestones and when will they occur? How can the milestones be measured?



We formed a group.

Actions

Which activities need to be executed in order to reach a certain milestone?



Got to know each other.

Set up plans for future meetings and how we should tackle this project.

Came up with questions for the supervisor.

Made this canvas.



result?

A bookA websiteAn event

Team

Who are the team members? What are their roles in the project?

The team members consist of us students from DTU taking the 02466 course.



Stakeholders

Who has an interest in the success of the project? In what way are they involved in the project?

Doctors are especially interested, since it will yield a stronger clinical guidance for them. These doctors are the ones providing the data. Moreover, us students will also gain experience and more knowledge.



Users

Who will benefit from the outcome of the project?



Both us, as we learn a lot from working with the problems within the project. Moreover, patients and doctors will eventually benefit from these results as well.

Resources

What resources do we need in the project?
- Physical (office, building, server)
- Financial (money)
- Human (time, knowledge)

This project requires a lot of human time as well knowledge, work power and money; this is for both data gathering but also data analysis and development of AI models.

Also, a study environment is needed (so our campus).



What are the known limitations of the project?
- Physical (office, building, server)
- Financial (money)
- Human (time, knowledge, politics)

All members are studying AI, hence, there is a lack of medical knowledge



Risks

Which risks may occur during the project? How do we treat these risks?



Risks for us will include possible misclassifications or how well the Al models will fit to our given data.