

|  |
| --- |
| Cancer Screening Model |
| Business Use Case |
| December 2024 |

Contents

[Overview 3](#_Toc110588229)

[Business Use Case 3](#_Toc110588230)

# Overview

You are working for a world leading Healthcare company. Your data and analytics team are super busy with releasing a new and exciting product launch. Your team has built a predictive model which gives the probability/risk score of cancer.

An executive has asked the data and analytics team a question – “How can we show that our cancer screening risk score is better than traditional clinical cancer screening criteria? Or is it even better? :O”.

You have been provided with CANCER\_RISK\_DATA to do this analysis. This dataset contains the model result (probability of oncology) along with actual cancer indicator (oncology\_flag) for each individual (entity\_ID).

A senior leader in the team assigns you to this task after requesting the data science team to provide you with the relevant information.

Unfortunately, the data science team is very busy now and provides you with a minimal viable data set only, which you know you can’t send through to the executive. As a go getter, you tackle the data directly to get the answers needed! As you dive into the data, you hope to yourself that the model is better.

# Business Use Case

You are provided with the following information:

* CANCER\_RISK\_DATA.
* The current clinical screening criteria is – “Screen all members above 50 years old”

Please produce the following:

* Any materials to support any workings/calculations/modifications made to the raw data
* A few key graphs/tables/insights answering the executive’s question
* A 1-slide presentation selecting the recommended information and correct positioning please use the provided presentation template.
* A request to the data science and analytics team for additional information that you feel could be necessary balancing request complexity and the value derived:
  + Please justify in 1 sentence why you would need that specific data
* Any other actions you think you should take that could add significant value to the process

Good luck and remember to have fun!