Diabetes disease progression measure

Generated by James Chao on 12/12/2023

Source RAI dashboard: RAI Dashboard Example

Model id: rai_diabetes_regression_model_1702413405:1

Model Summary

Purpose

This model provides a quantitative measure of disease progression one year after baseline

This is a regression model.

Model evaluation

This model is evaluated on a test set with 89 datapoints.

Target values

Here are your defined target values for your model performance and/or other model assessment parameters:

- mean_absolute_error: <= 5.0

Model Performance

Observe evidence of your model performance here:

Mean absolute error

43.56 is the average of the absolute difference between actual values and predicted values.

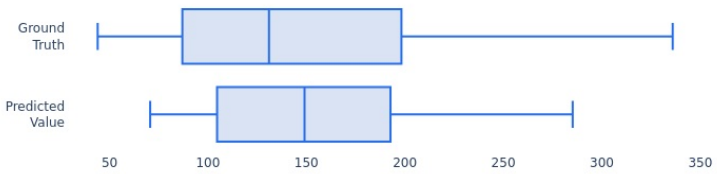
Mean squared error

2991.81 is the average of the squared difference between actual values and predicted values.

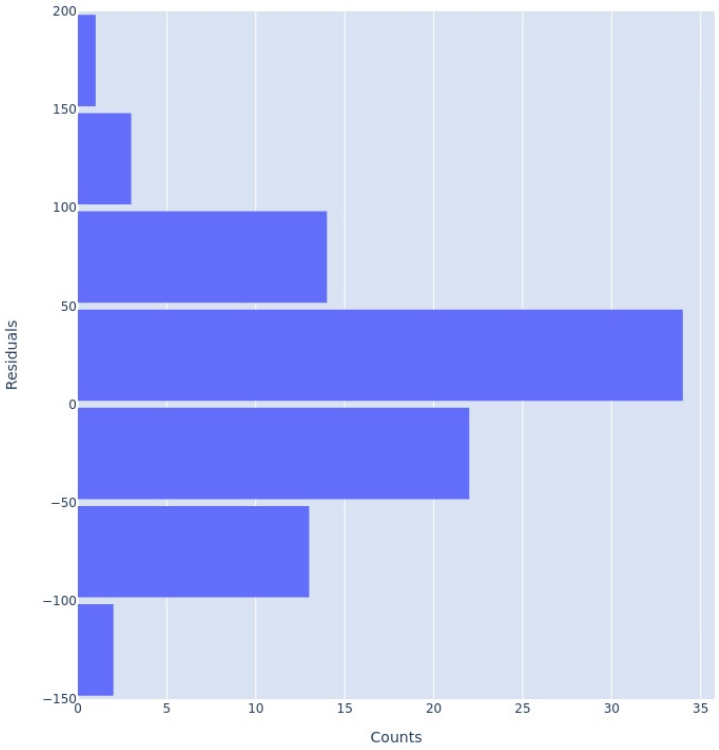
R2 score

0.4 is amount of variation in the predicted values that can be explained by the model inputs.

Distributions



Histogram of your residuals values (distance between actual values and predicted values):



Cohorts

Observe evidence of model performance across your passed cohorts:

Highest ranked cohorts: mean_absolute_error

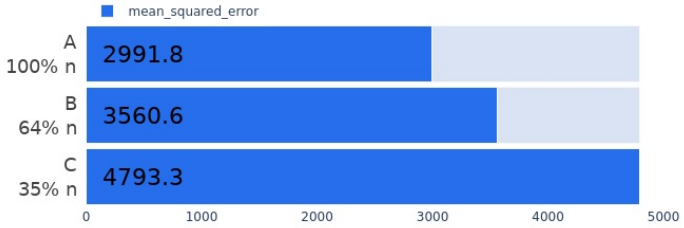
- A: All Data
- B: age <= 0.02
- C: s4 > -0.02
  AND
  age <= 0.02

Highest ranked cohorts: mean_absolute_error

Highest ranked cohorts: mean_squared_error

- A: All Data
- B: age <= 0.02
- C: s4 > -0.02
  AND
  age <= 0.02

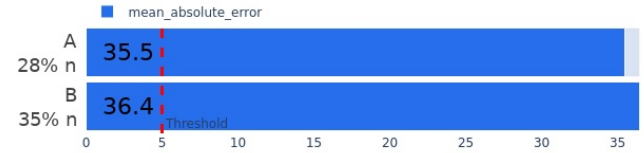
Highest ranked cohorts: mean_squared_error



Lowest ranked cohorts: mean_absolute_error

- A: s4 <= -0.02
  AND
  age <= 0.02
- B: age > 0.02

Lowest ranked cohorts: mean_absolute_error



Lowest ranked cohorts: mean_squared_error

- A: age > 0.02
- B: s4 <= -0.02
  AND
  age <= 0.02

Lowest ranked cohorts: mean_squared_error