GPT2 Access

Generated by Hannah Westra (SHE/HER) on 10/25/2022

Model Summary

Purpose

This is a regression model to analyze parkinsons data

This is a regression model.

Model evaluation

This model is evaluated on a test set with 1876 datapoints.

Target values

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

- Top important features: 4
- Fairness difference in mean_squared_error
- Fairness difference in mean_absolute_error

Model Performance

Observe evidence of your model performance here:

Mean absolute error

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

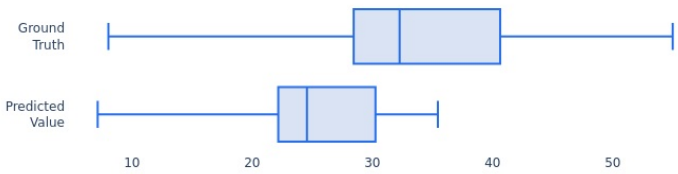
Mean squared error

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

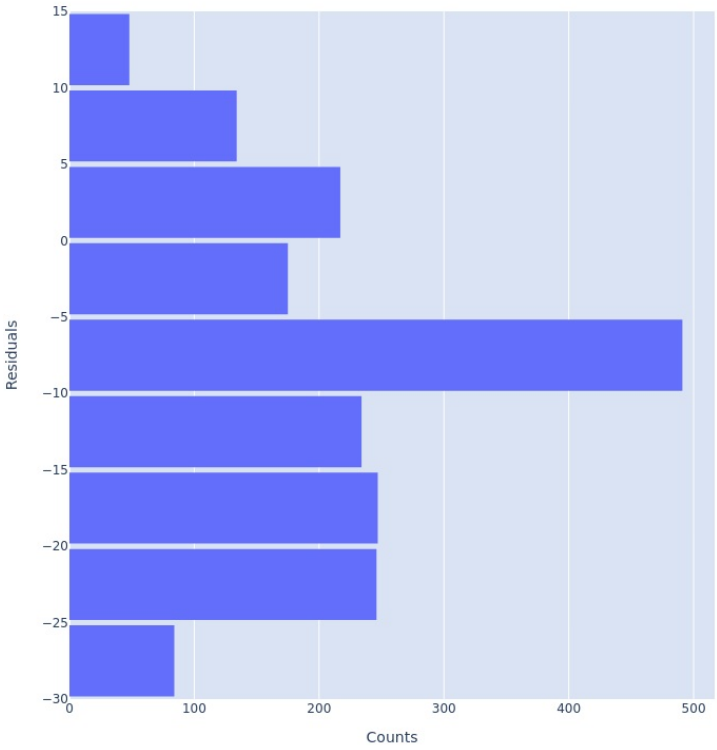
R2 score

-1.04 is amount of variation in the predicted values that can be explained by the model inputs.

Distributions

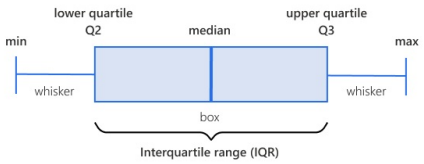


Histogram of your residuals values (distance between actual values and predicted values):



Data Explorer

Evaluate your dataset to assess representation of identified cohorts:

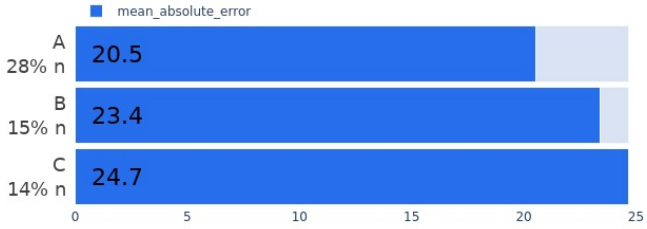


Observe evidence of model performance across your passed cohorts:

Highest ranked cohorts: mean_absolute_error

- A: motor_UPDRS > 29.90
- B: subject# <= 38.50
  AND
  motor_UPDRS > 29.90
- C: Jitter(Abs) <= 0.00
  AND
  subject# <= 38.50
  AND
  motor_UPDRS > 29.90

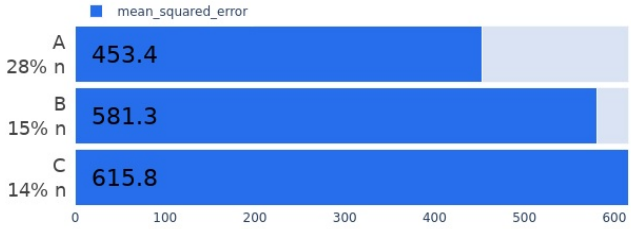
Highest ranked cohorts: mean_absolute_error



Highest ranked cohorts: mean_squared_error

- A: motor_UPDRS > 29.90
- B: subject# <= 38.50
  AND
  motor_UPDRS > 29.90
- C: Jitter(Abs) <= 0.00
  AND
  subject# <= 38.50
  AND
  motor_UPDRS > 29.90

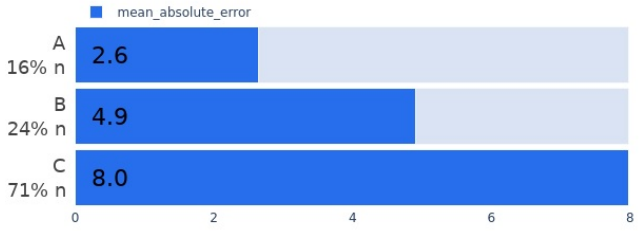
Highest ranked cohorts: mean_squared_error



Lowest ranked cohorts: mean_absolute_error

- A: motor_UPDRS > 18.37
  AND
  age > 66.50
  AND
  motor_UPDRS <= 29.90
- B: age > 66.50
  AND
  motor_UPDRS <= 29.90
- C: motor_UPDRS <= 29.90

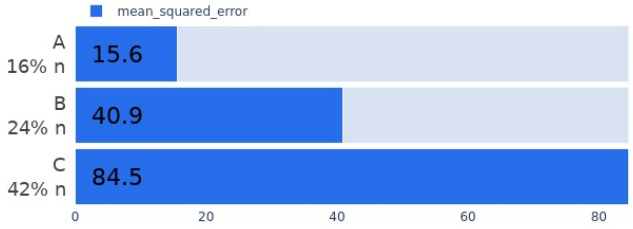
Lowest ranked cohorts: mean_absolute_error



Lowest ranked cohorts: mean_squared_error

- A: motor_UPDRS > 18.37
  AND
  age > 66.50
  AND
  motor_UPDRS <= 29.90
- B: age > 66.50
  AND
  motor_UPDRS <= 29.90
- C: subject# > 31.50
  AND
  age <= 66.50
  AND
  motor_UPDRS <= 29.90

Lowest ranked cohorts: mean_squared_error



Feature Importance (Explainability)

Understand factors that have impacted your model predictions the most. These are factors that may account for performance levels and differences.

- A: HNR
- B: RPDE
- C: DFA
- D: PPE

Feature Importance

Shown below is the mean of SHAP value of the most important features: