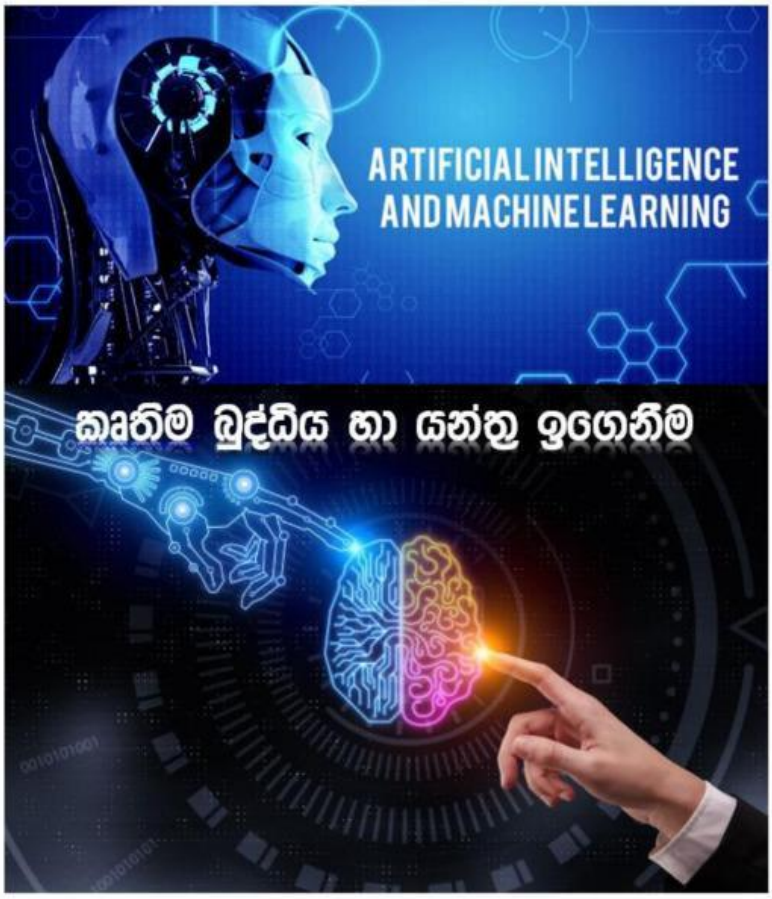
# Project 167

DP EDUCATION

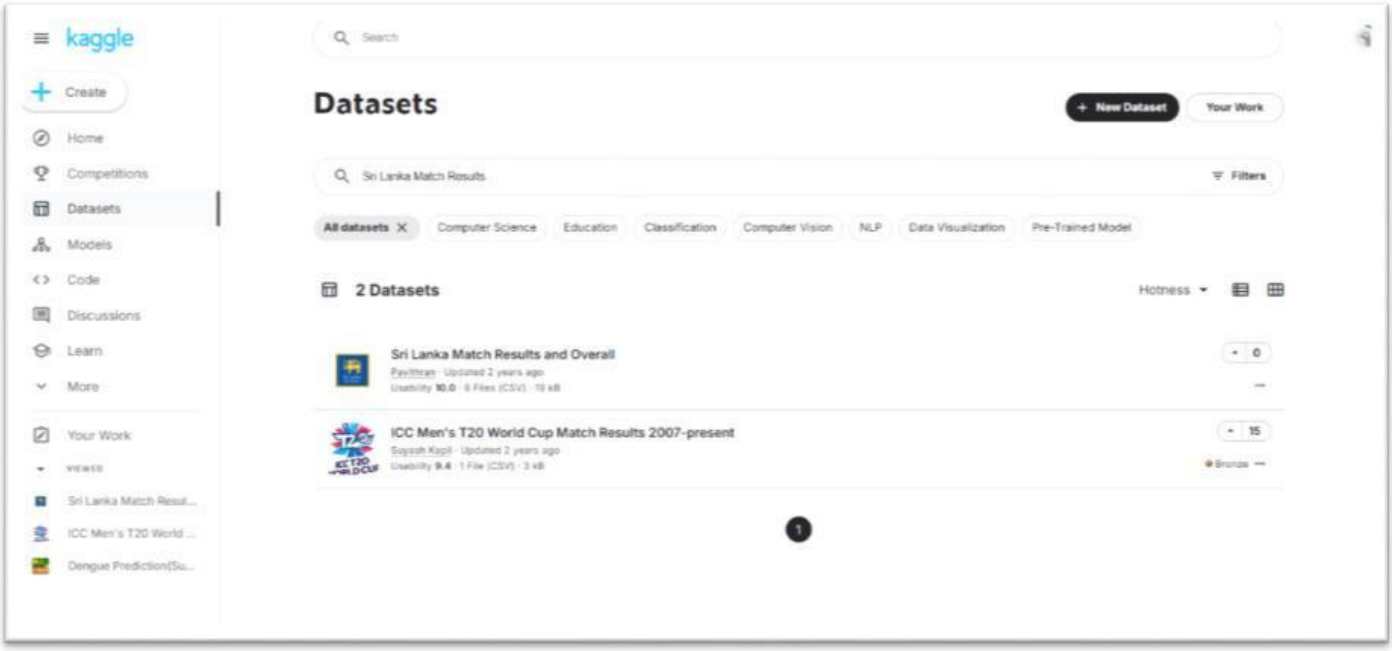
## Coding School


# AI and Machine Learning



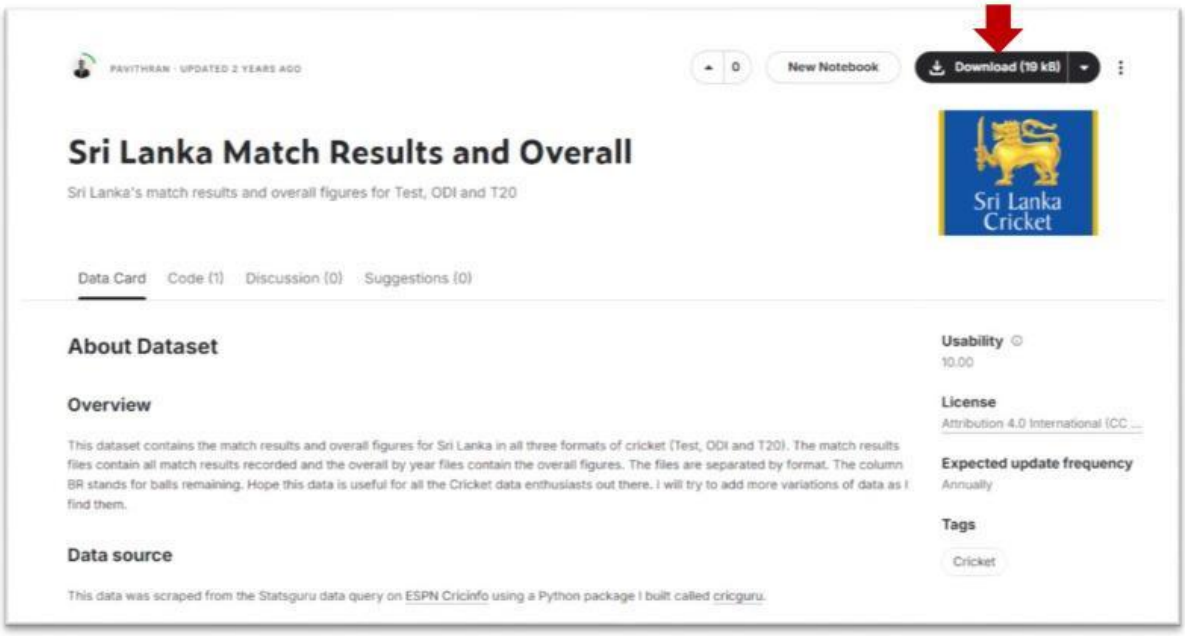

Start here

- In the 167th homework, train a machine learning model using a dataset from the kaggle website and use that model to create a mobile app through the App lab
- First let's see if there is a dataset related to the Sri Lankan cricket team.
- First log into your kaggle website account.
- Now click on the Datasets tab in the side bar.
- Search as Sri Lanka Match Results.

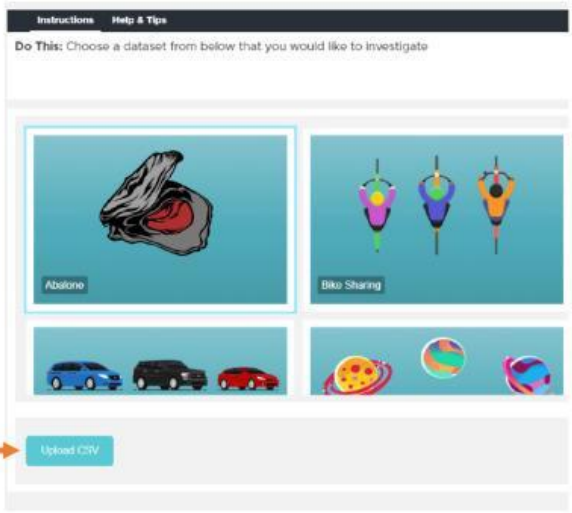



- Now click on the Sri Lanka Match Results and Overall dataset from the received results.

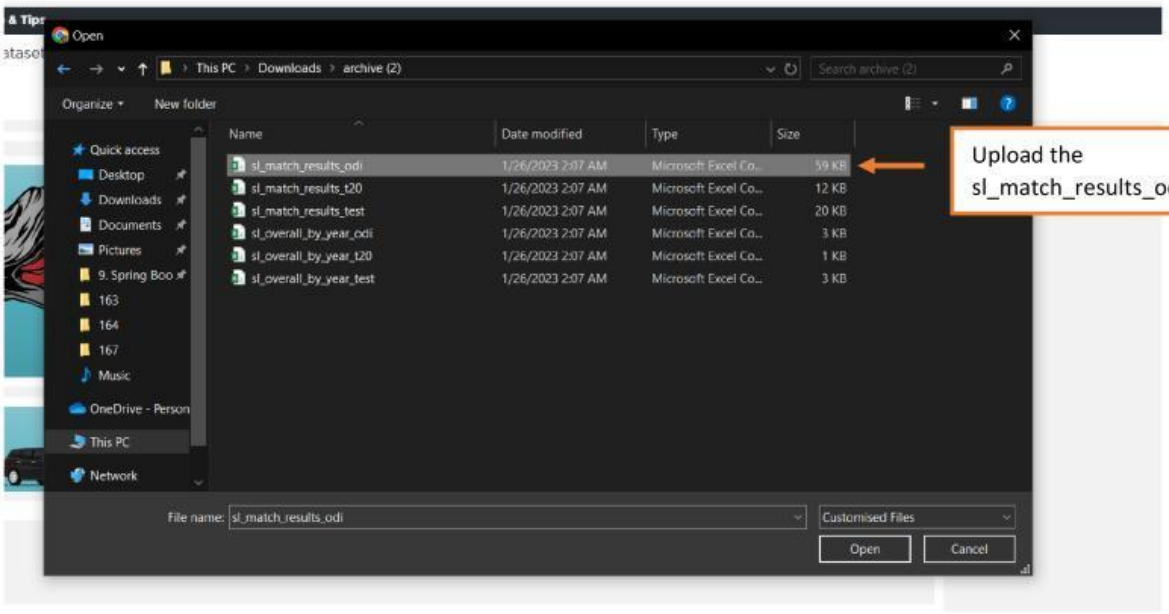

- Download the dataset.




- Now extract the downloaded dataset.
- Let's train a machine learning model using the sl_match_results_odi excel file in that folder.
- Now click on the start button in the homework and open the Al and machine learning lab.
- Click on the Upload CSV button and upload the sl_match_results_odi dataset to Al and machine learning lab..

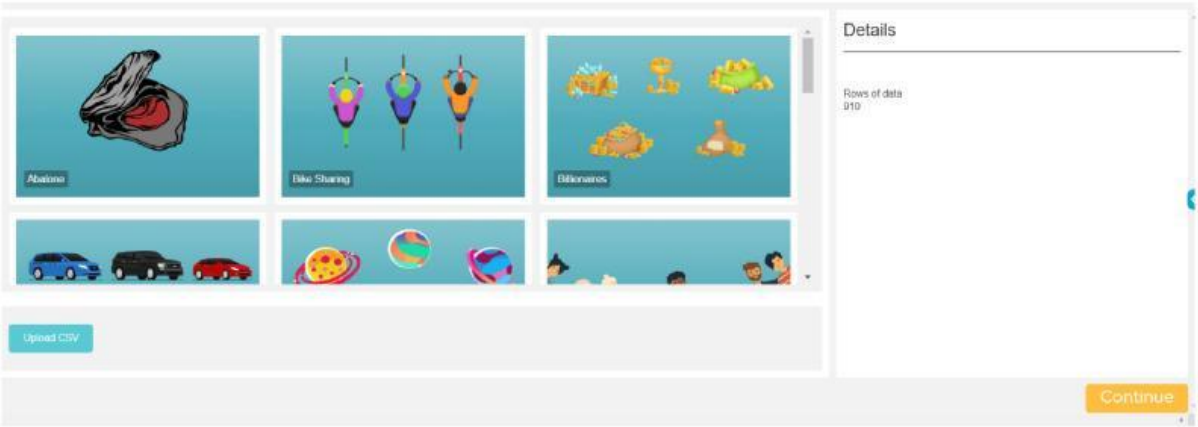



Click on the Upload CSV button.

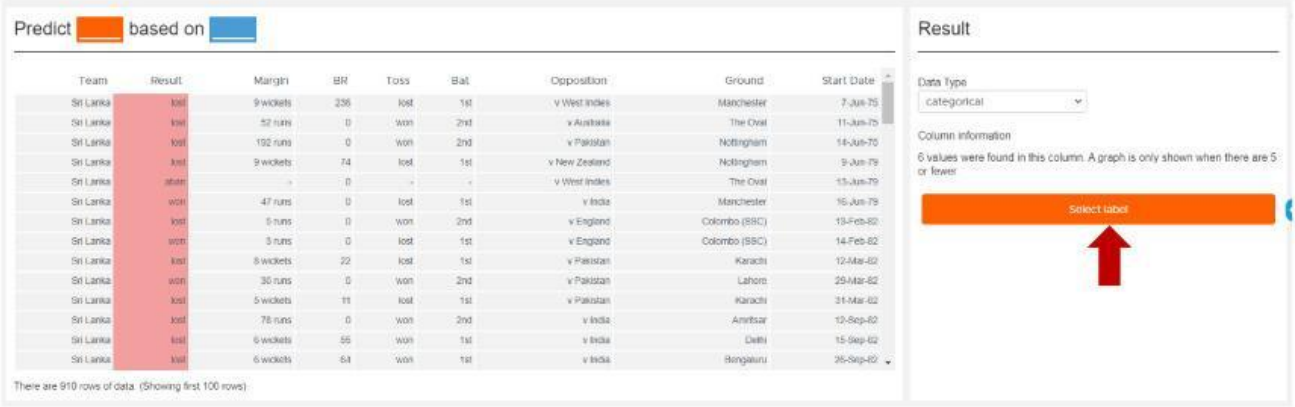



Upload the sl_match_results_odi dataset.

❖ Click on the Continue button between 910 rows of that data set.



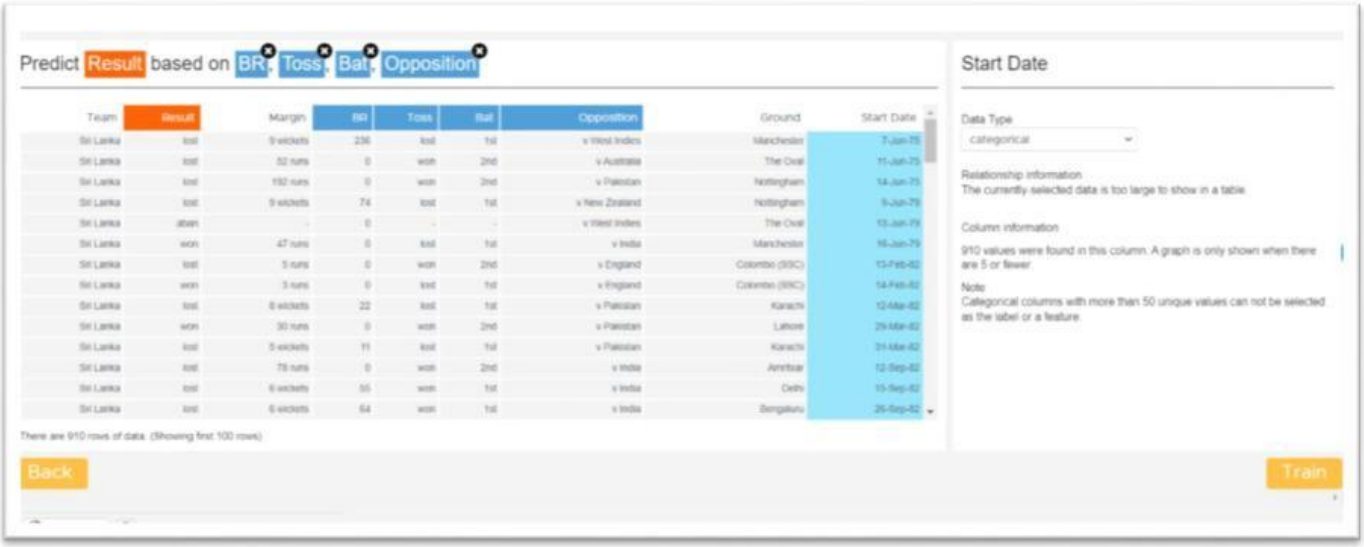
- Now select the label you want to predict.
- Here we are predicting the defeat of the Sri Lanka cricket team.
- Select the result label for that.




- Now click on the continue button.

- Now select the labels you want to predict.

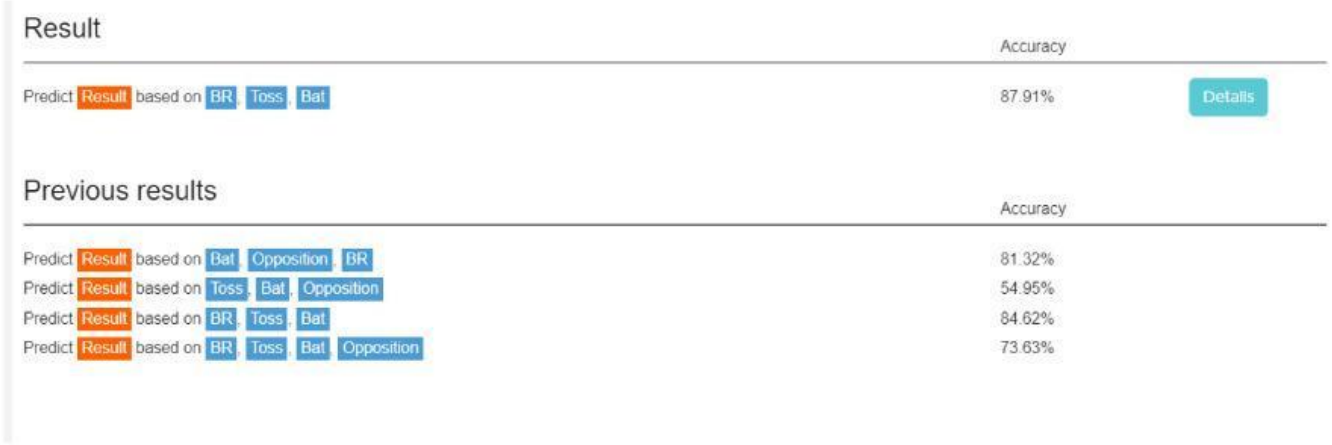
- For that select BR, Toss, Bat and opposition teams labels.




- Now click on train

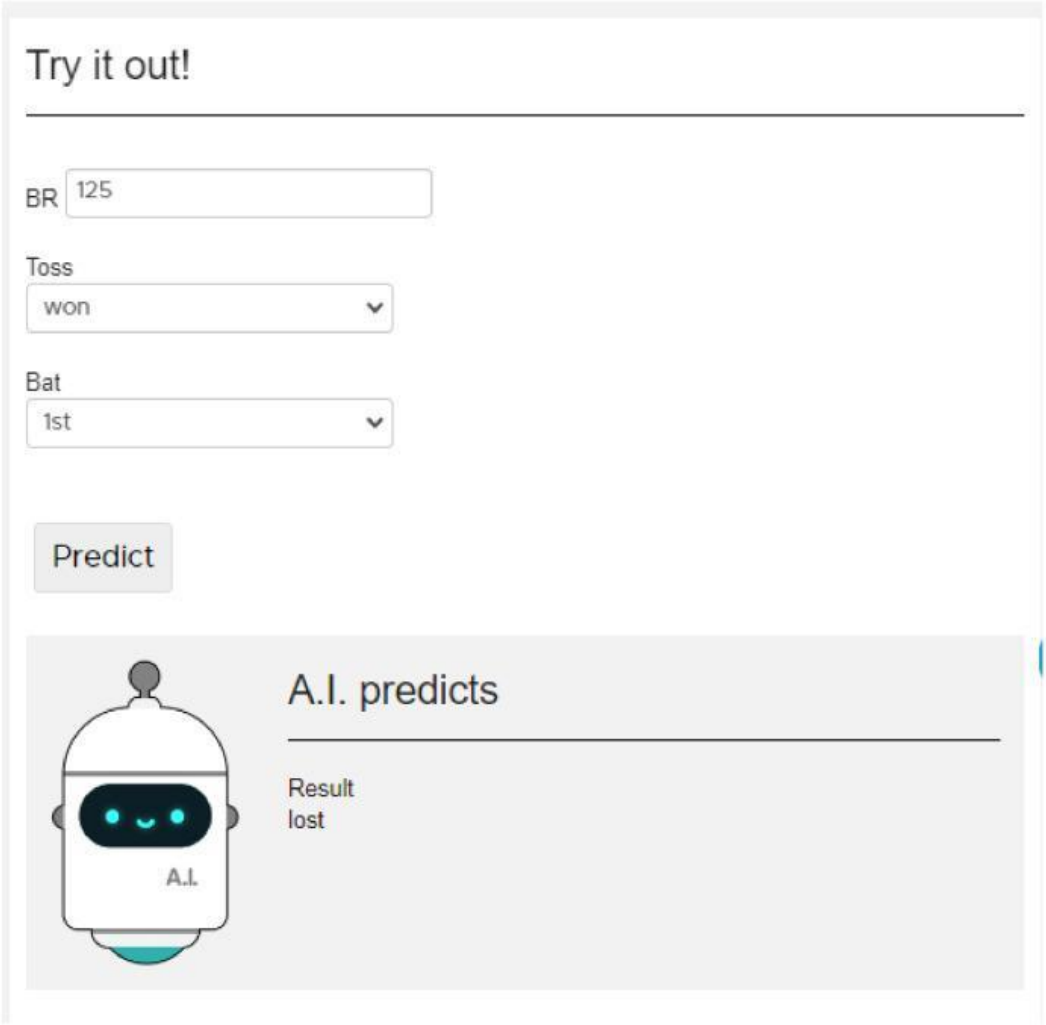
- Then based on the BR value of the Sri Lankan team and whether the Toss was passed or not and whether the Sri Lankan team bats first or not and what is the opposition team, when this model was trained, a good value of 73.63% accuracy was obtained


- Now this model was trained by killing each label.
- Then the following type of accuracy is obtained.

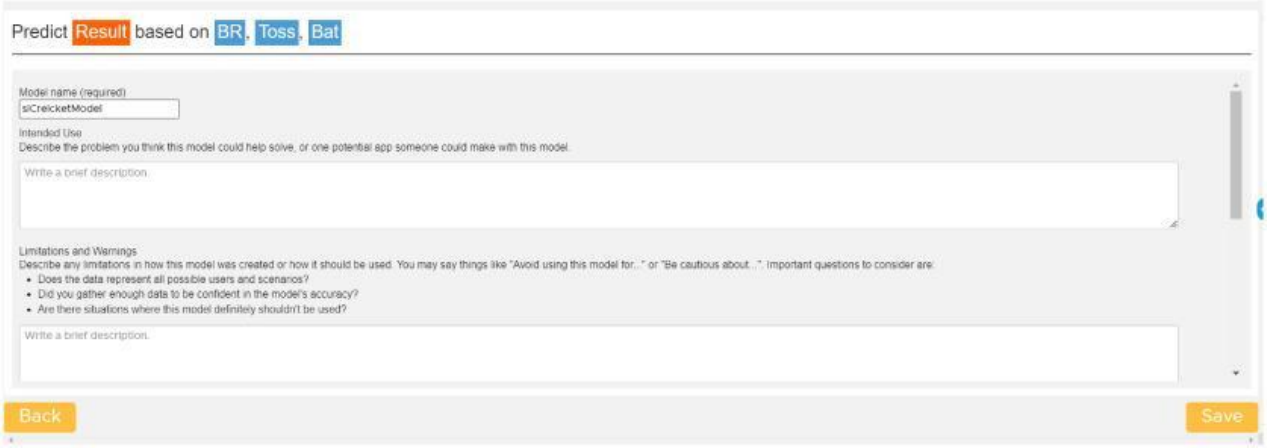



- When the model was trained based on whether the Sri Lankan team took the Toss or not and what the opposition team was and based on the BR value, an accuracy of 54.95% was obtained.
- When this model was trained based on whether the Sri Lankan team is batting first or not and what the opposition team is and based on the BR value, an accuracy of 81.32% was obtained.
- When this model was trained based on the BR value of the Sri Lankan team and whether the toss was passed or not and whether the Sri Lankan team batted first or not, a good value of 87.91% accuracy was obtained.

❖ Among these, let's consider the case where the accuracy is the highest, 87.91%.




❖ Let's save the model at that time.
❖ Now click on the continue button.
❖ Give slCreicketModel for the name of the model.




- Now click on the save button.
- Then the details of the model we created will be displayed as below.

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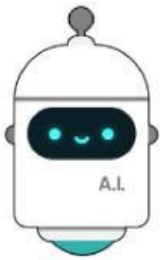


slCreicketModel

Accuracy

87.91%

Intended Use

Limitations and Warnings

About the Data

Dataset size
910 rows

Features and Label

Predict Result based on BR, Toss, Bat

Label

Result

Possible Values
lost aban won n/r tied canc

Features

BR

Possible Values
min 0
max 274

Toss

Possible Values
lost won -

Bat

Possible Values
1st 2nd -

- Now click on Finish button.