

# Data Analytics for Curling

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## Description

Institute of Sports of Scotland has collected more data on Curling. It ranges from collection of games to player statistics. This project is concerned to analyse data in Curling and processing the other complex information captured in Curling.

## KEY QUESTIONS

1. Which style of play will the opposition use when a shot is taken?
2. Which player is good for the different types of shots during game play?
3. What is the likelihood that the opposition will change their style of play and what technique are they going to use next?

## Project Objectives

1. Use machine learning Technique To Analyse Complex Information Captured in the data
2. To investigate and model dataset on the team and the opposite team to determine playing style patterns.
3. Determines Players strengths and weakness during training and matches.

## Project Outcome

1. The models will highlight team and players strength.
2. To enable the improvement of Players performance .
3. To help make in game decision based on the style of play from the opposition team also depending on the type of shot or ends.

## Machine Learning Tools and Techniques

### Tools

R Programming, Python, Weka,

### Models/Techniques

Decision Tree, Neural Network, Regression

