
title: "final_trial"

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output: html_document

```
``{r setup, include=FALSE}
```

```
knitr::opts_chunk$set(echo = TRUE)
```

```
``
```

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
``{r seed, echo=FALSE}
```

```
library(rpart)
```

```
library(datasets)
```

```
data("iris")
```

```
set.seed(123)
```

```
``
```

```
``{r}
```

```
trainIndex=sample(nrow(iris),0.7*nrow(iris))
```

```
trainIndex
```

```
``
```

```
``{r}
```

```
trainData<-iris[trainIndex, ]
```

```
trainData
```

```
...
```

```
``{r}
```

```
testData<-iris[-trainIndex, ]
```

```
testData
```

```
...
```

```
``{r}
```

```
model=rpart(Species~.,data=trainData,method="class")
```

```
model
```

```
...
```

```
``{r}
```

```
predictions=predict(model,testData,type = "class")
```

```
predictions
```

```
...
```

```
``{r}
```

```
accuracy<-sum(predictions==testData$Species)/nrow(testData)
```

```
accuracy
```

```
...
```

```
``{r}
```

```
cat("Accuracy:",accuracy)
```

```
...
```