---

title: "final\_trial"

author: "enoch"

date: "2023-03-13"

output: html\_document

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```{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)

```