

KFoldCrossValidation.R

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```
# K-Fold Cross Validation
```

```
library(ISLR)
library(boot)
library(glmnet)
```

```
## Loading required package: Matrix
```

```
## Loaded glmnet 4.1-3
```

```
set.seed(17)
```

```
array_error = rep(0,10)
```

```
for (i in 1:10){
```

```
  glm.fit = glm(mpg ~ poly(horsepower,i) , data = Auto)
```

```
  array_error[i] = cv.glm(Auto,glm.fit,K=10)$delta[1]
```

```
}
```

```
array_error
```

```
## [1] 24.27207 19.26909 19.34805 19.29496 19.03198 18.89781 19.12061 19.14666
```

```
## [9] 18.87013 20.95520
```