Kernel SVM

Heaven Klair

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Importing the dataset

```r
dataset = read.csv('Social_Network_Ads.csv')
Age = dataset$Age
EstimatedSalary = dataset$EstimatedSalary
Purchased = dataset$Purchased
```

Splitting the dataset into the Training set and Test set

You can also embed plots, for example:

```r
library(caTools)
set.seed(123)
split = sample.split(dataset$Purchased, SplitRatio = 0.75)
training_set = subset(dataset, split == TRUE)
test_set = subset(dataset, split == FALSE)
```

Feature Scaling

```r
training_set[-3] = scale(training_set[-3])
test_set[-3] = scale(test_set[-3])
```

Fitting classifier to the Training set

```r
# install.packages(e1071)
library(e1071)
classifier = svm(formula = Purchased ~ .,
                 data = training_set,
                 type = 'C-classification',
                 kernel = 'radial')
```

Predicting the Test set results

```r
y_pred = predict(classifier, newdata = test_set[-3])
```

Making the Confusion Matrix

```r
cm = table(test_set[, 3], y_pred)
cm
```

```
##    y_pred
##     0  1
## 0 58  6
## 1  4 32
```