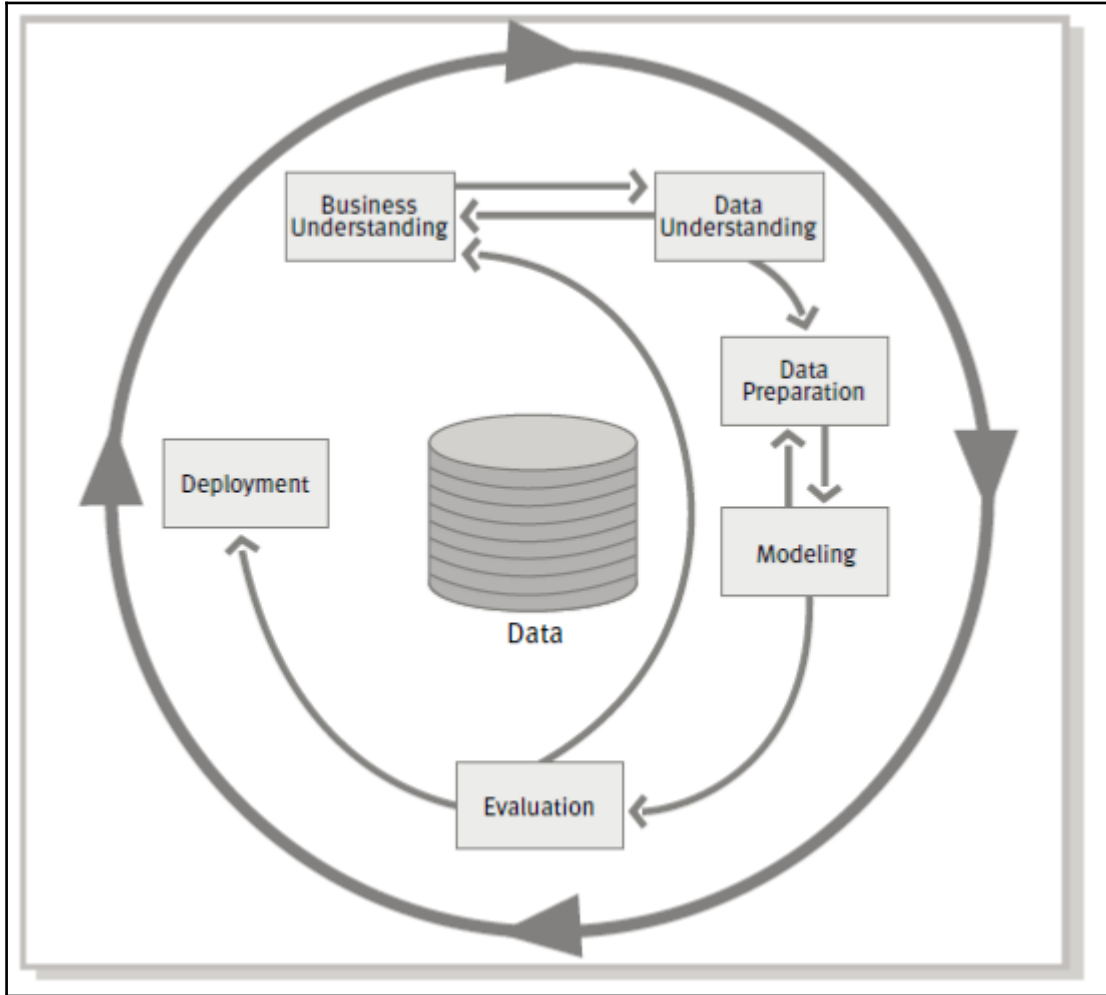
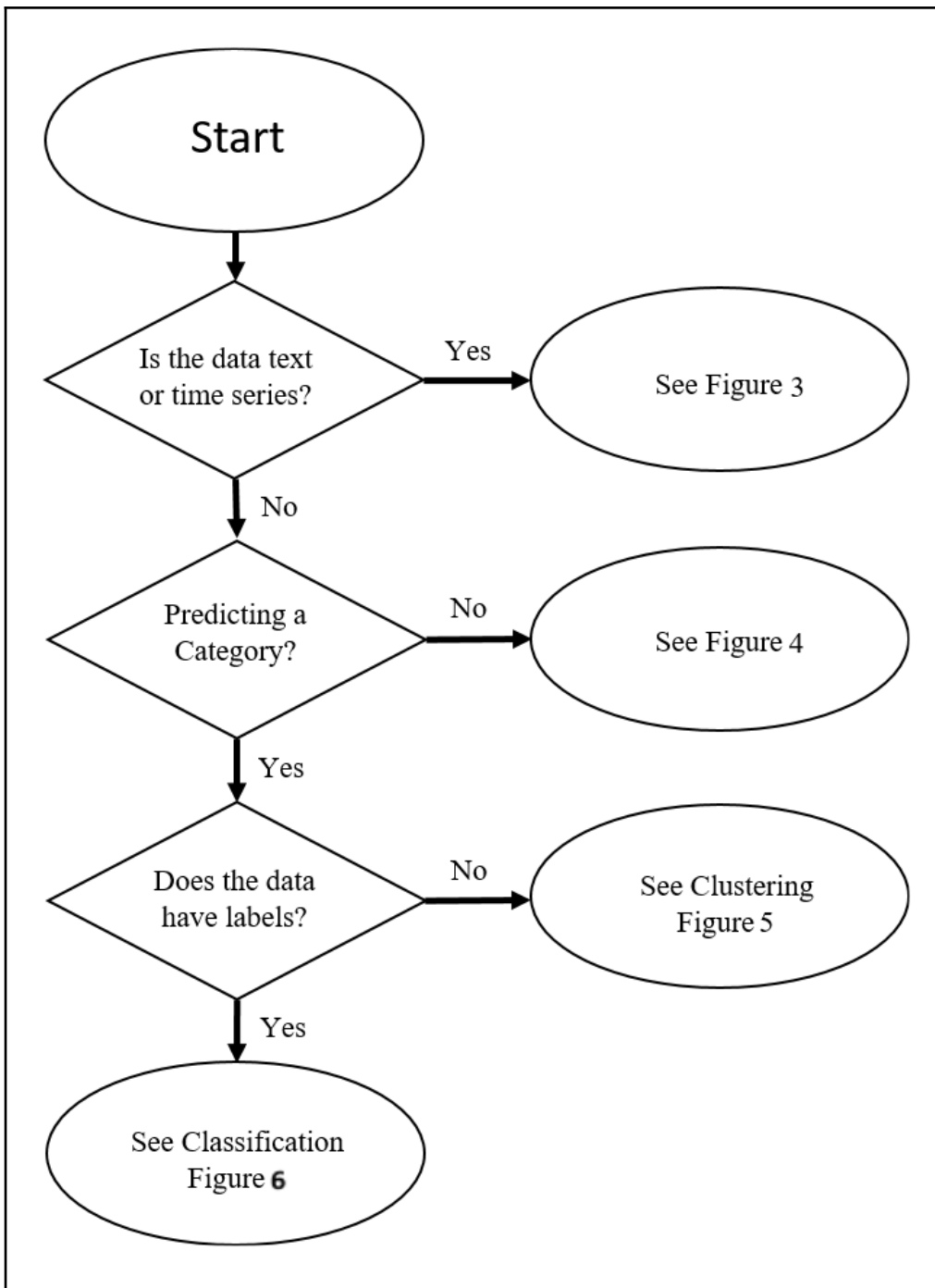
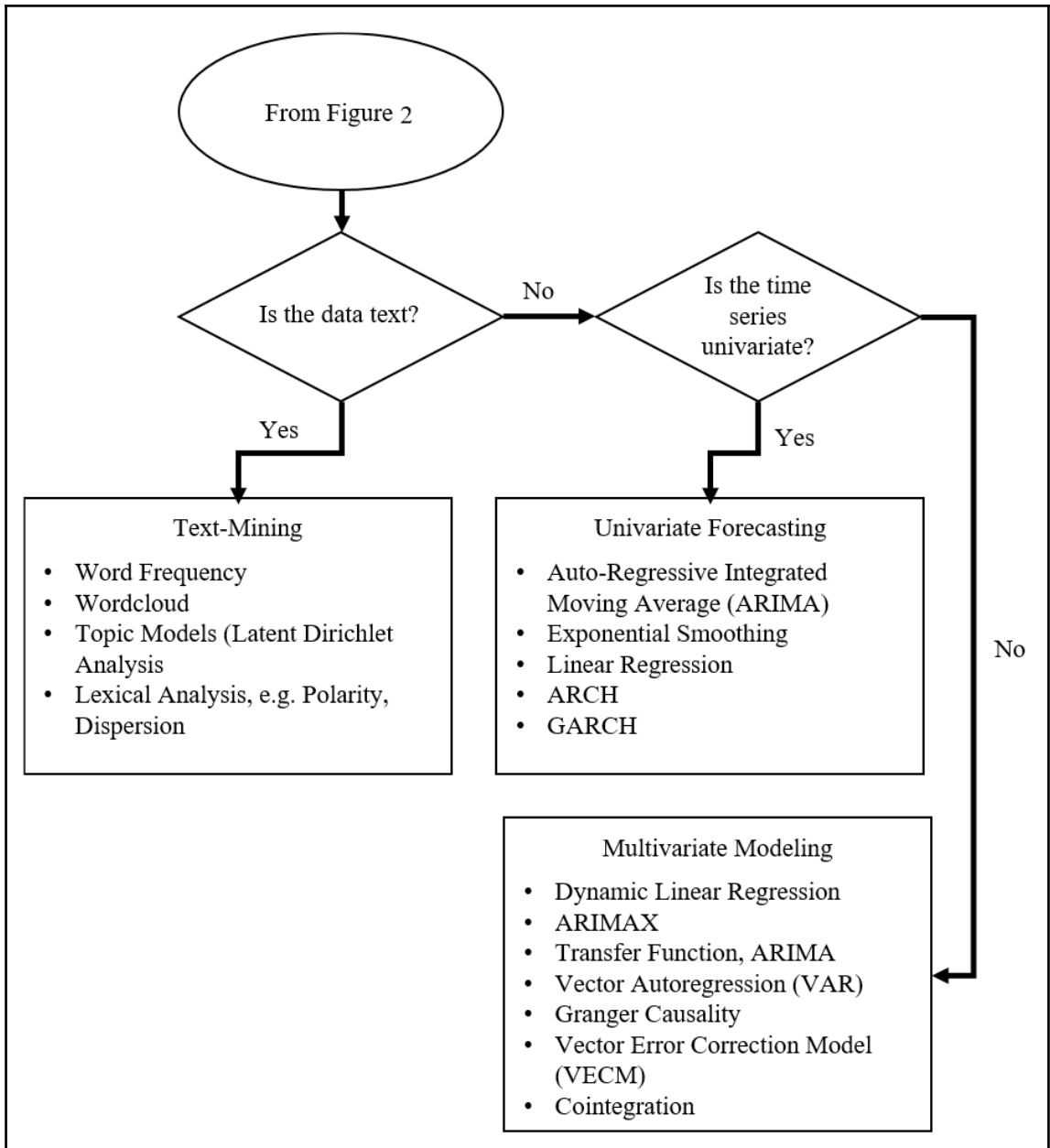
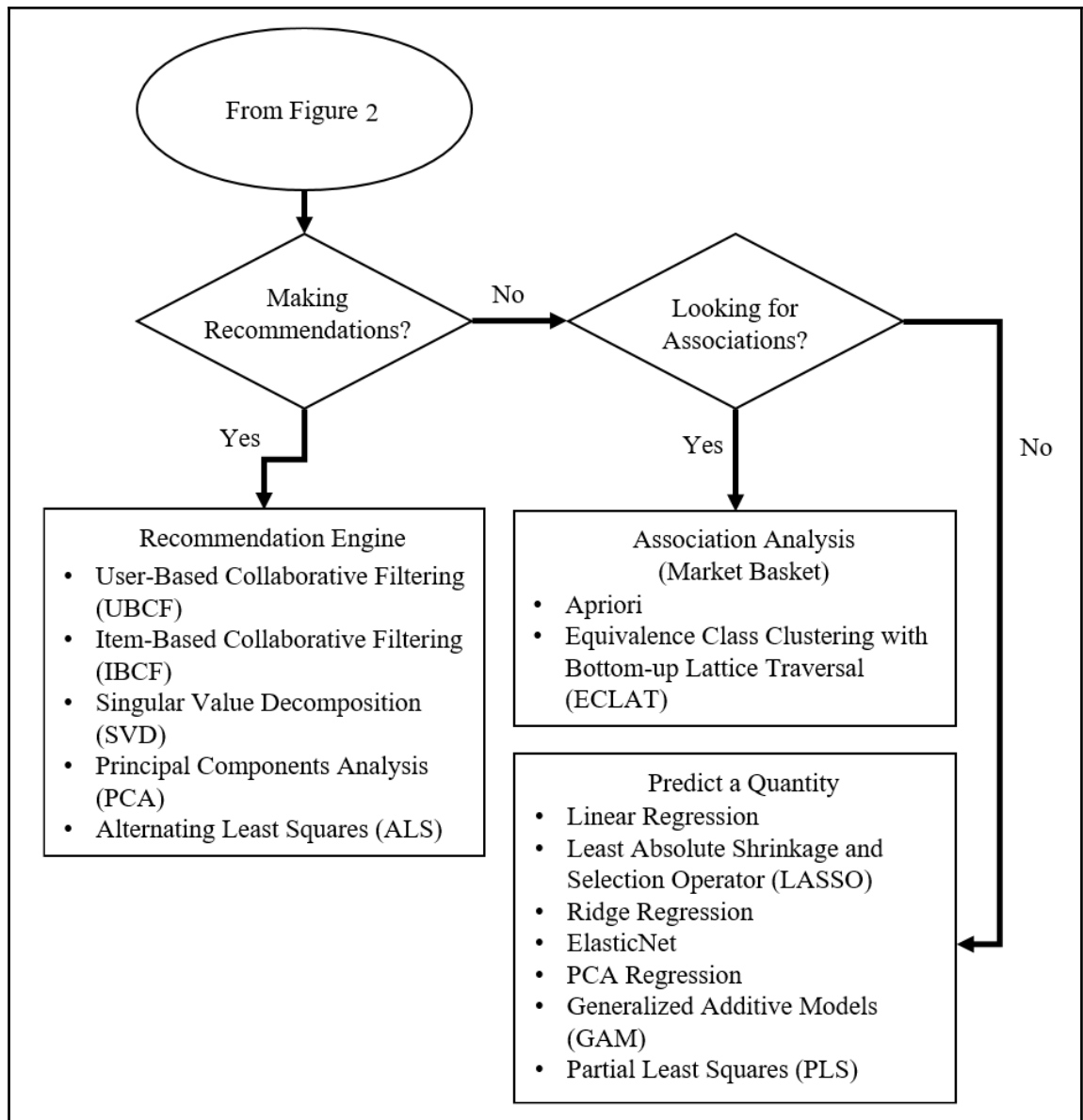


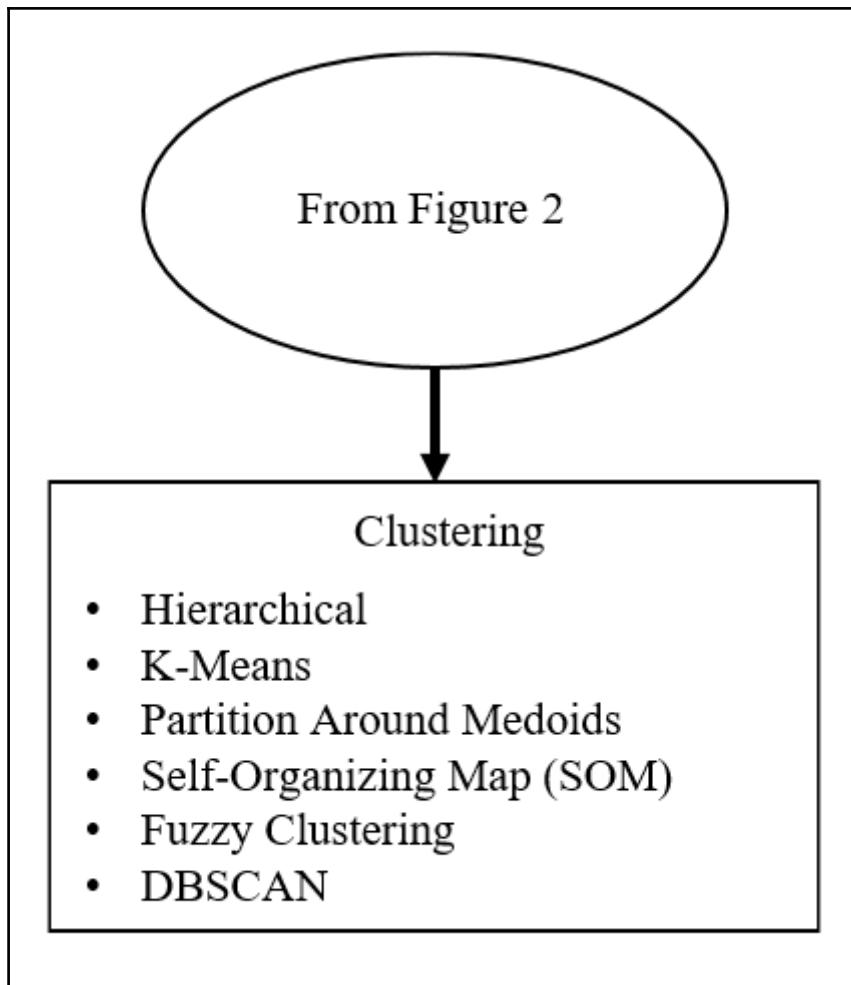
Chapter 1: A Process for Success

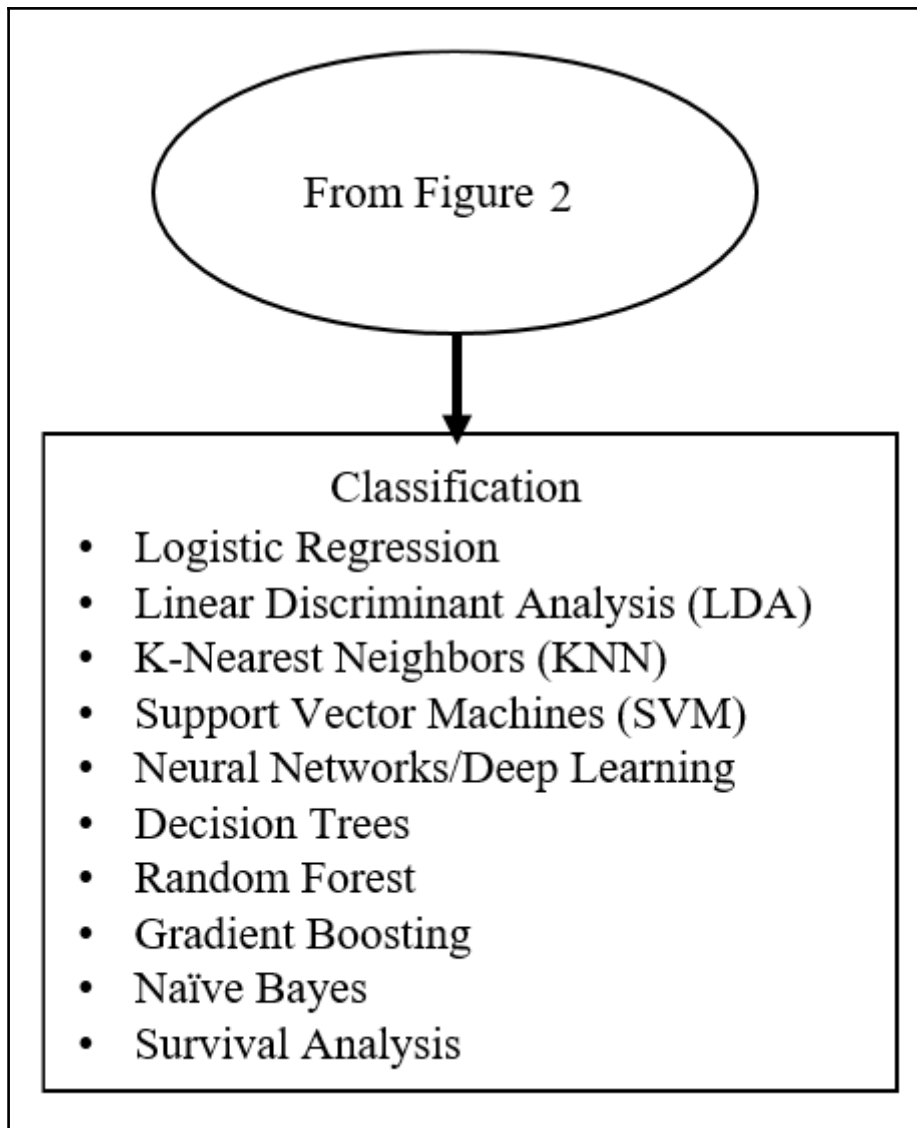




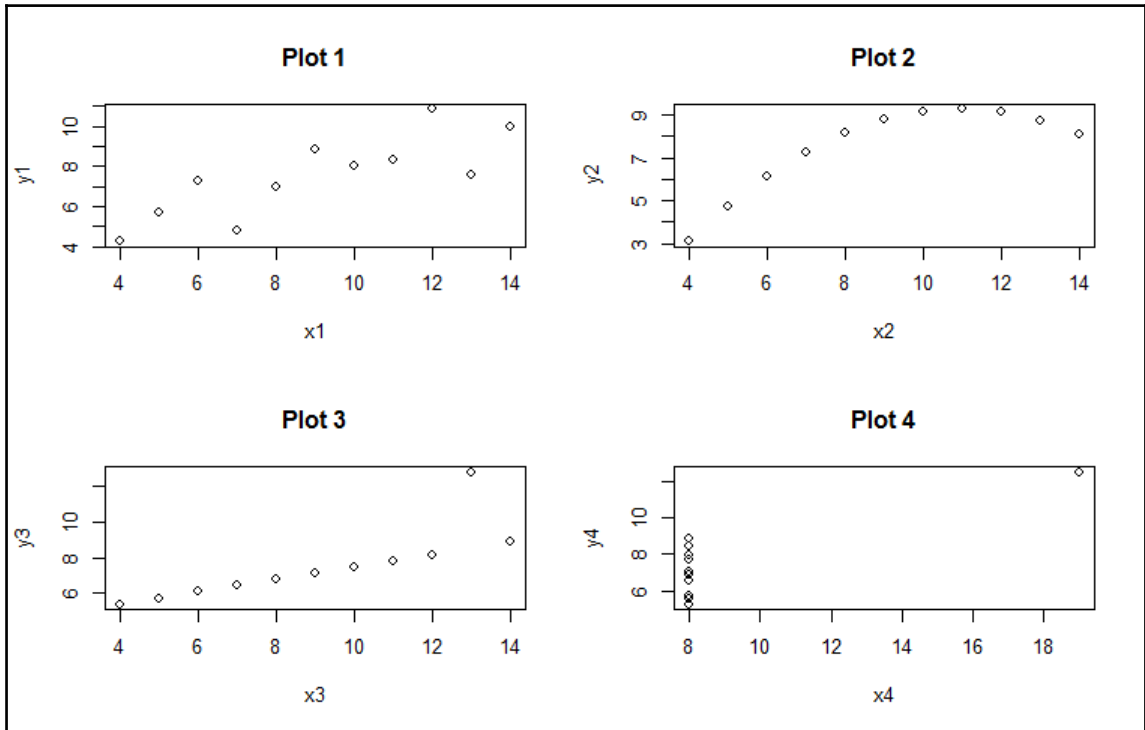


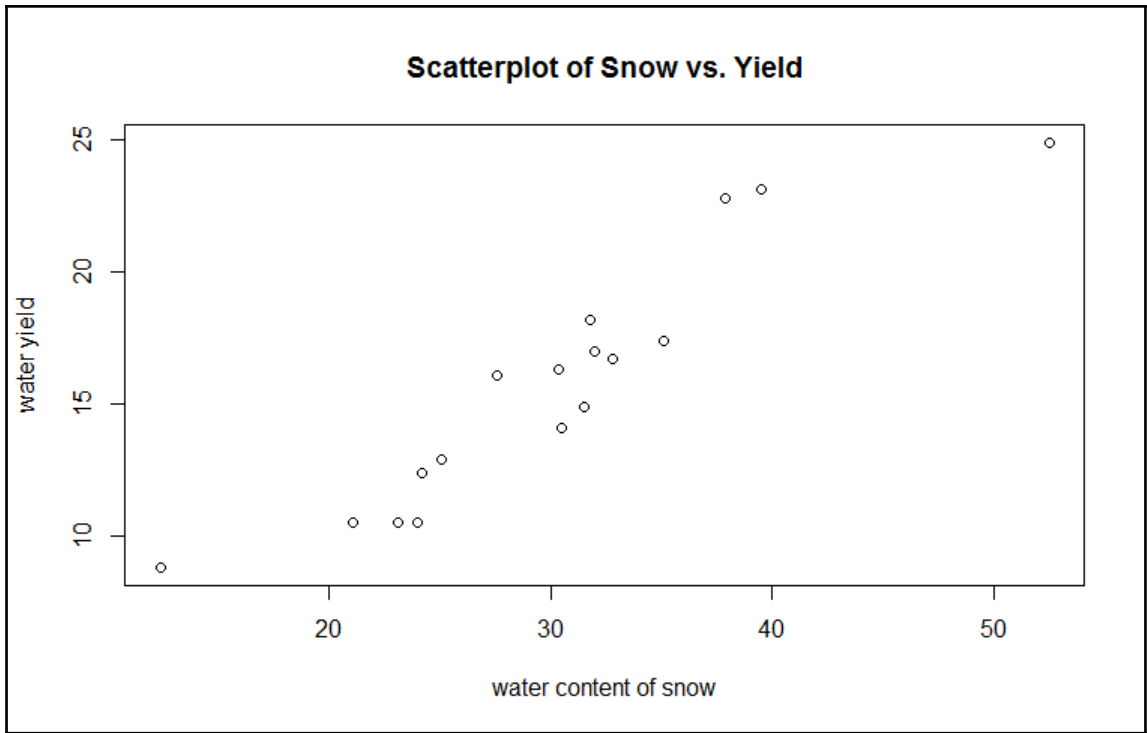


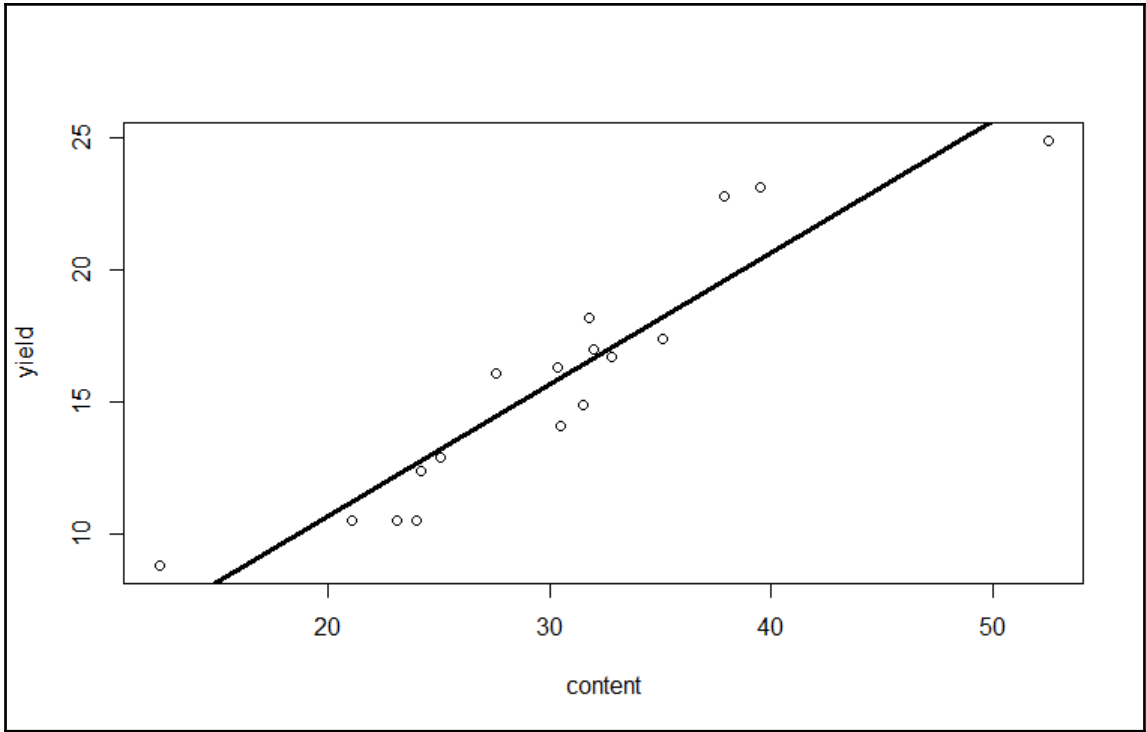


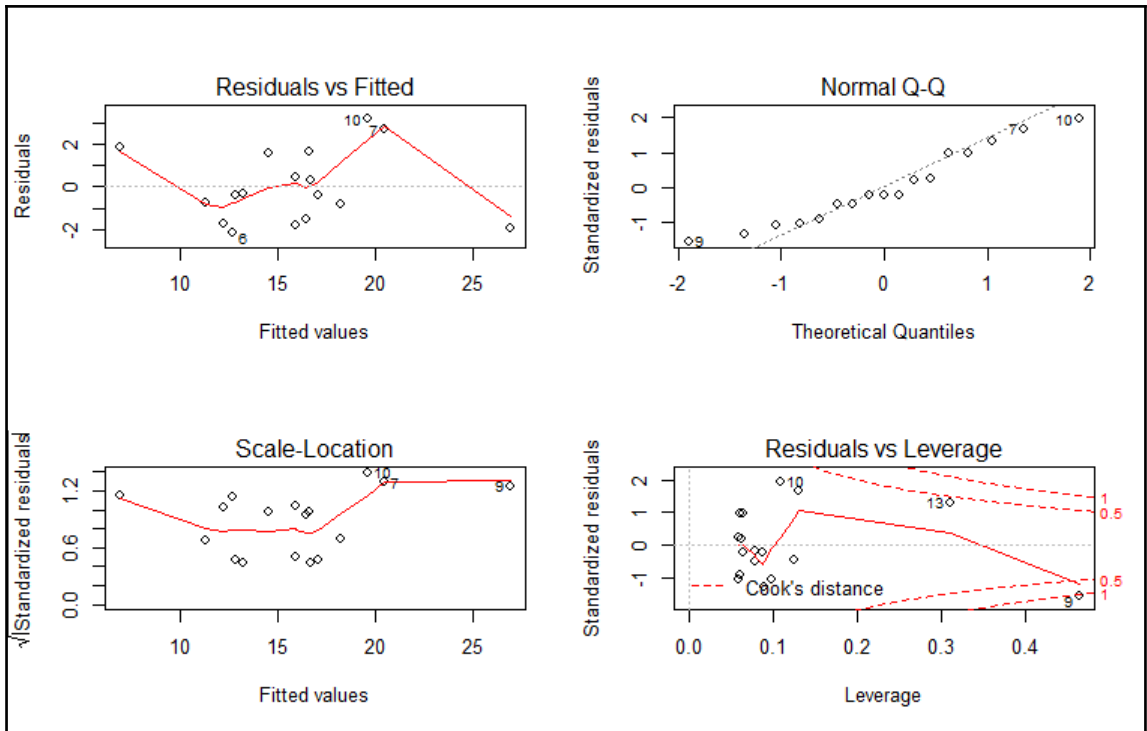


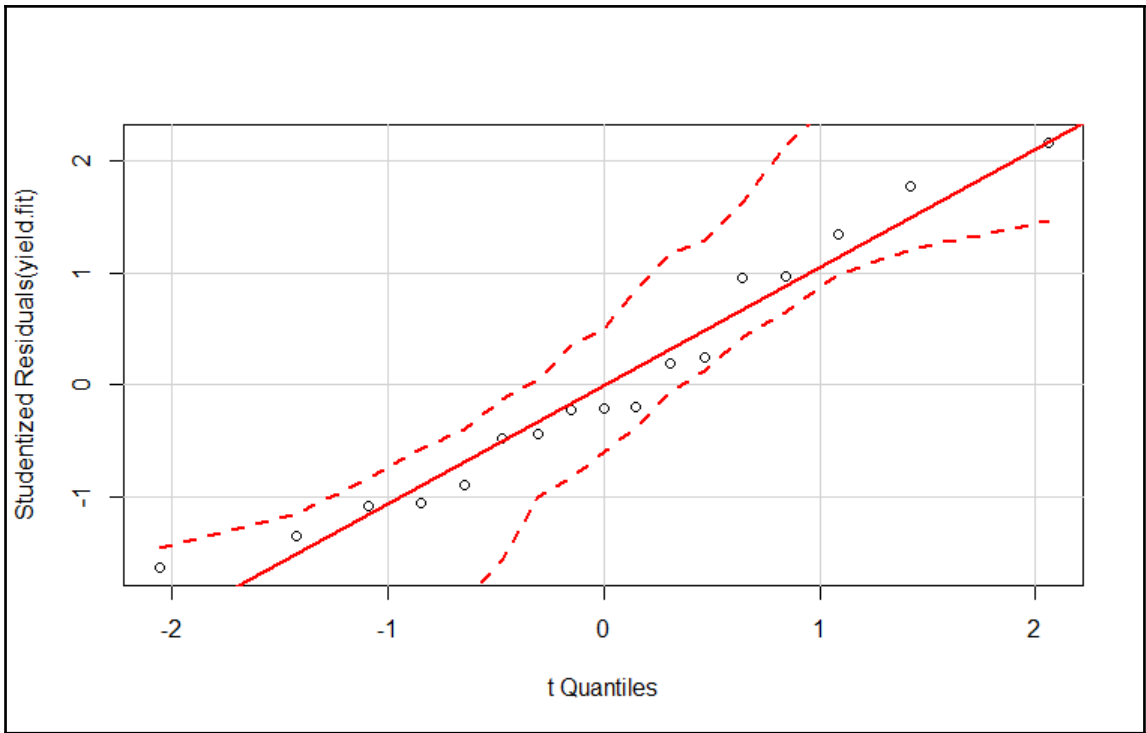
Chapter 2: Linear Regression - The Blocking and Tackling of Machine Learning

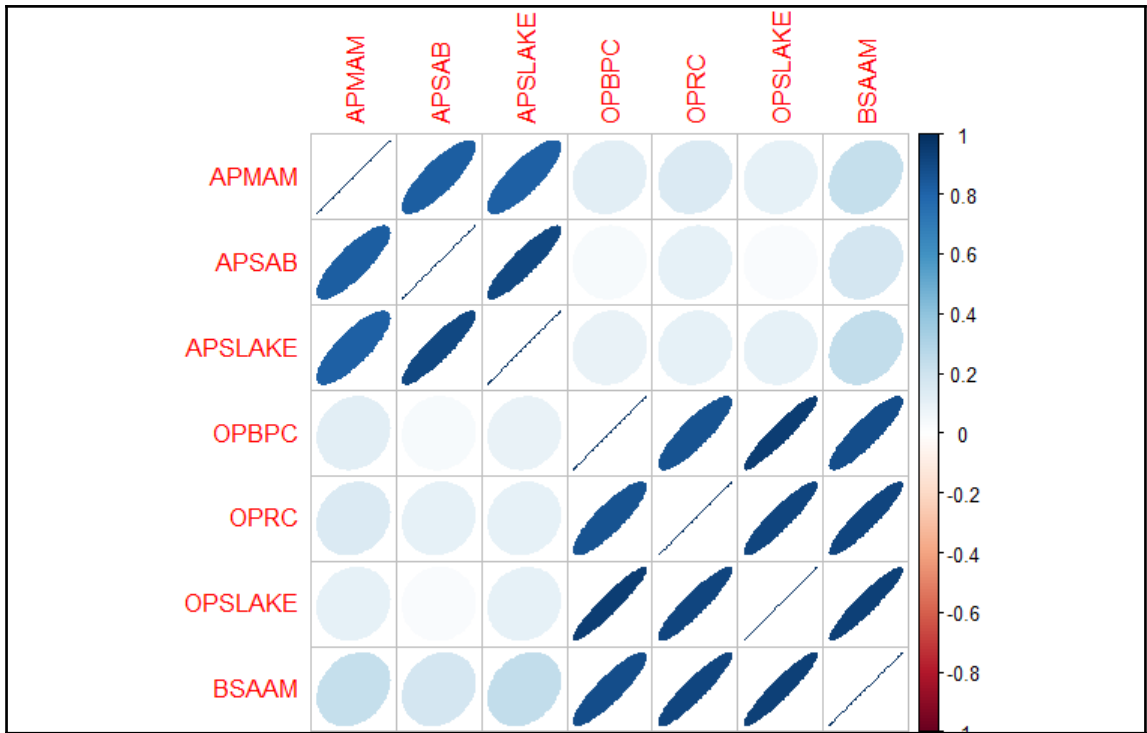


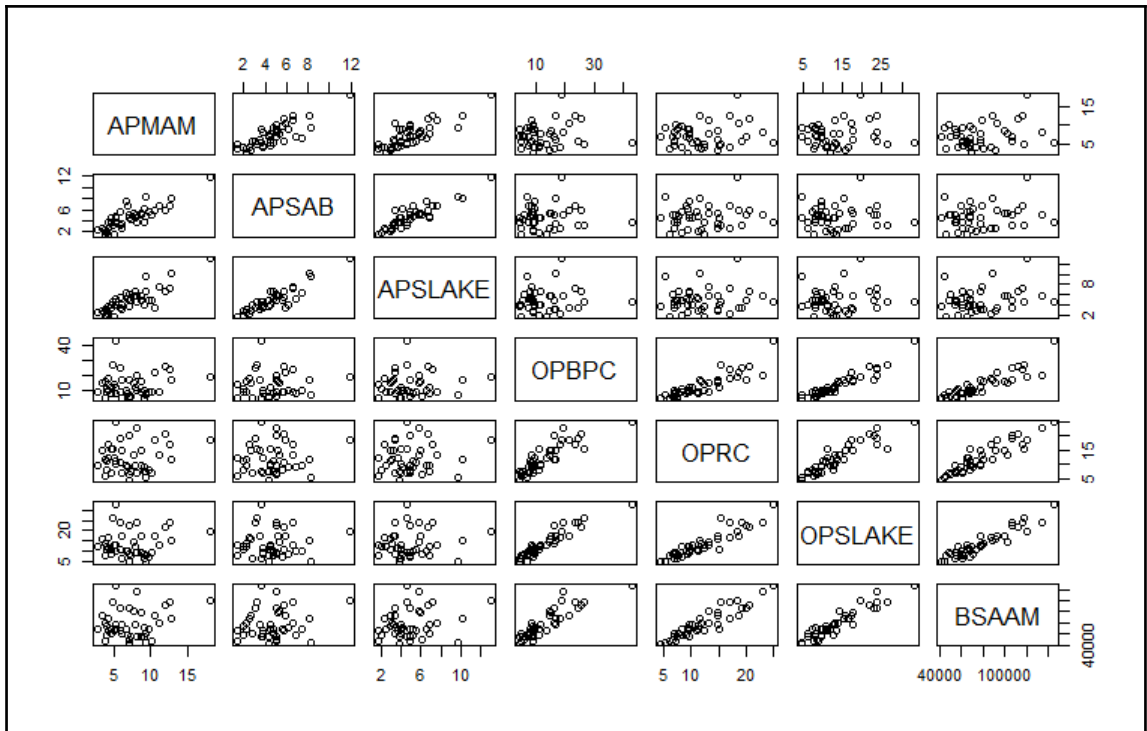


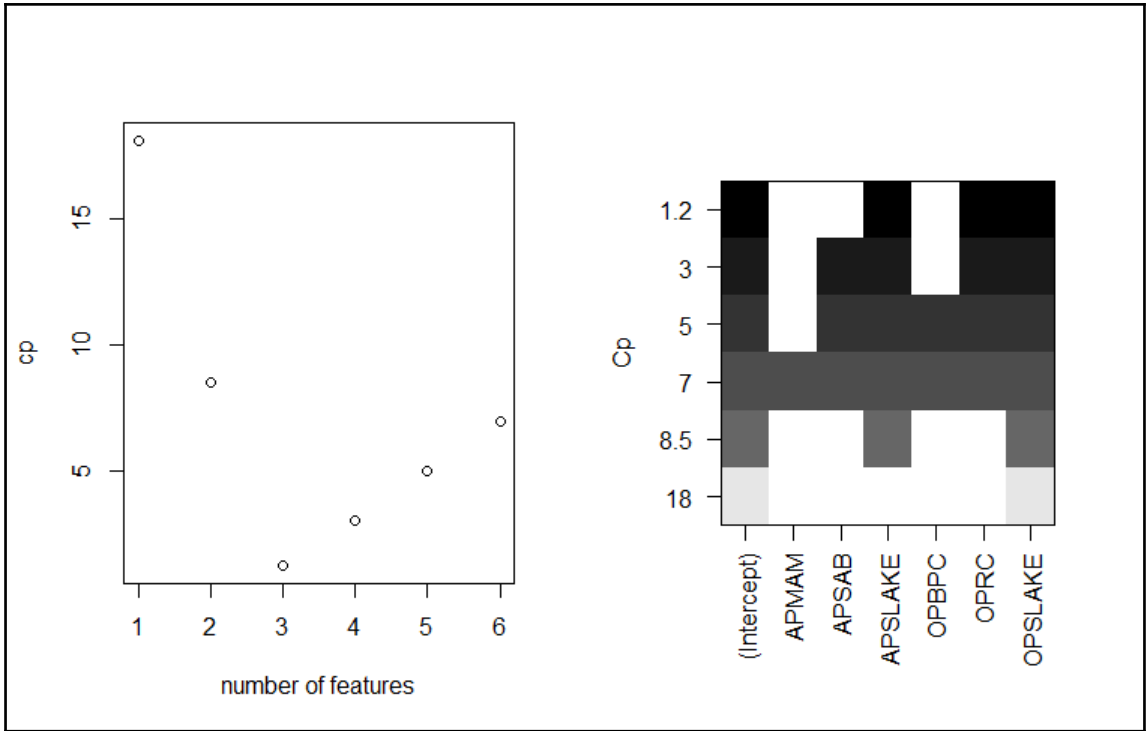


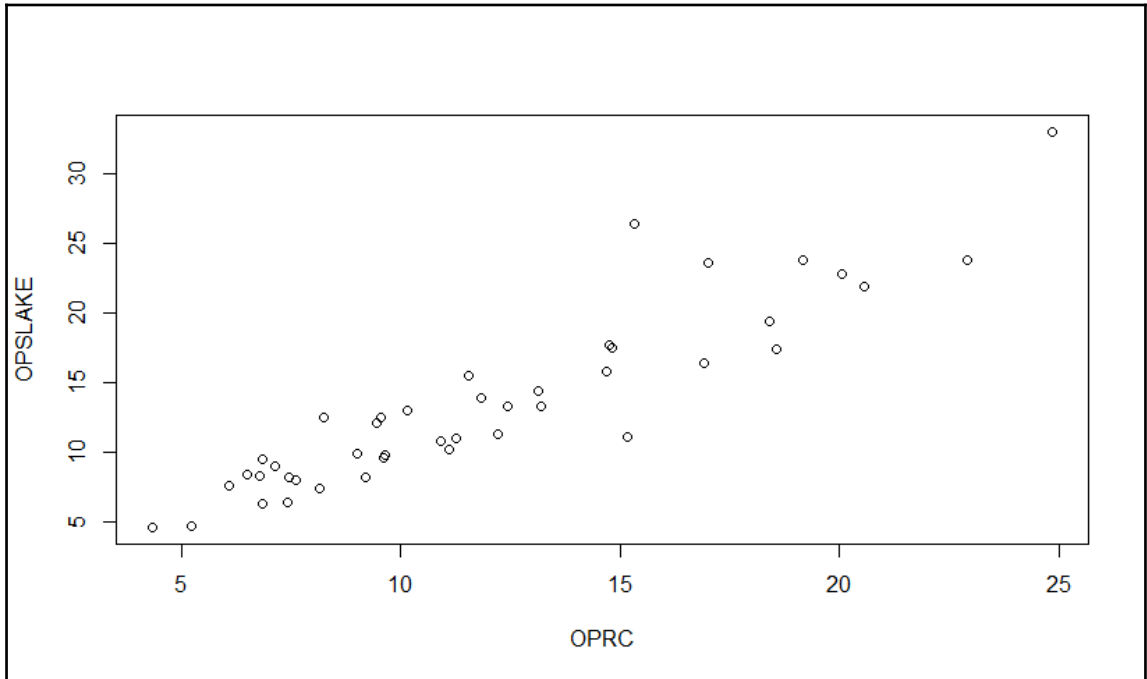
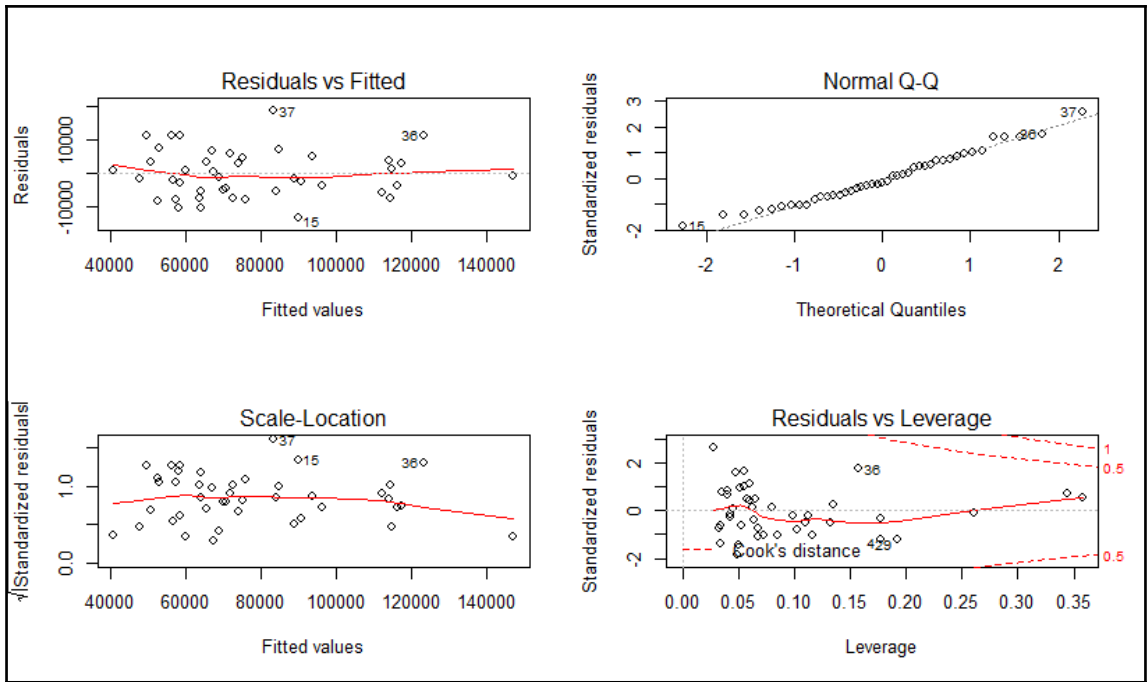


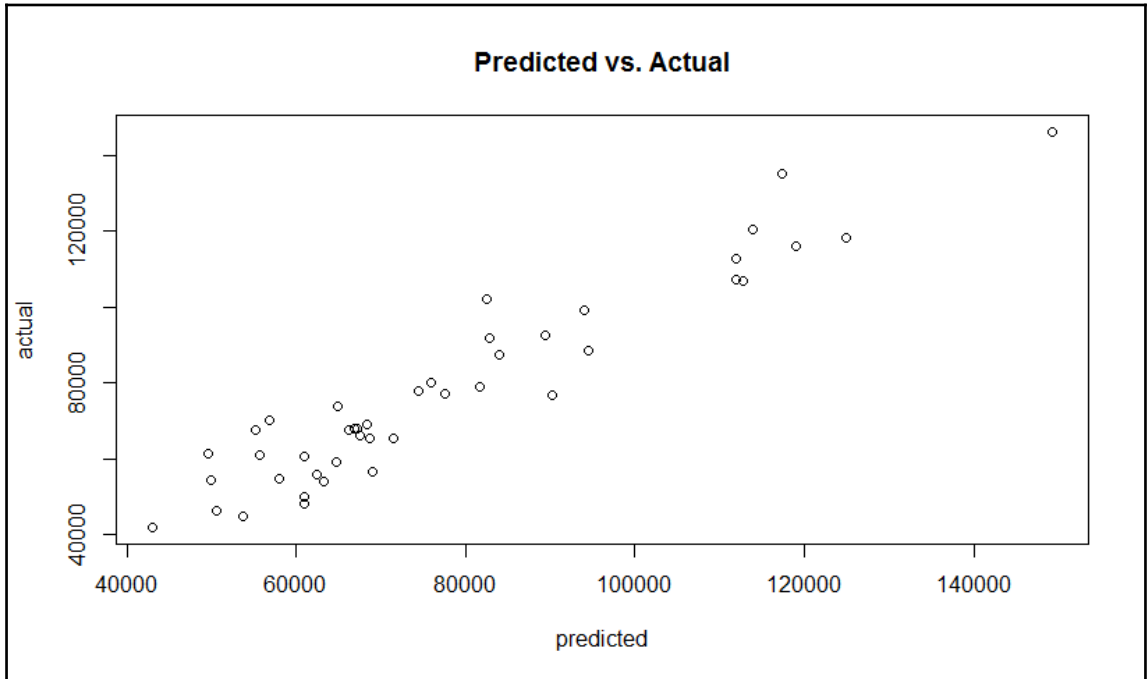
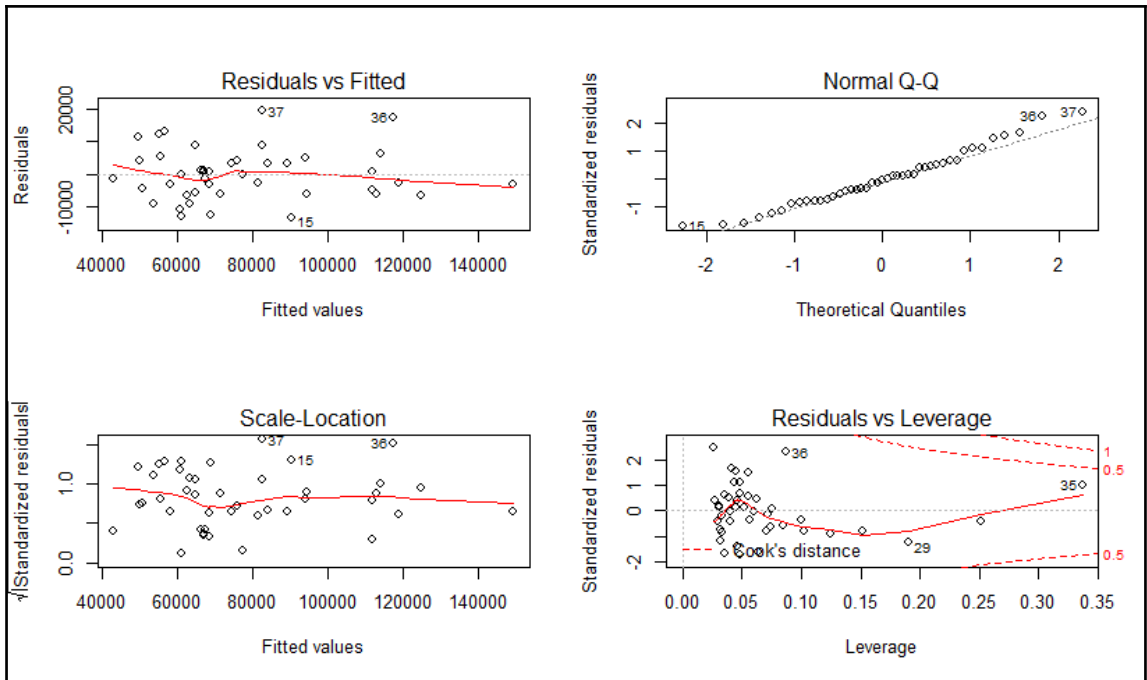


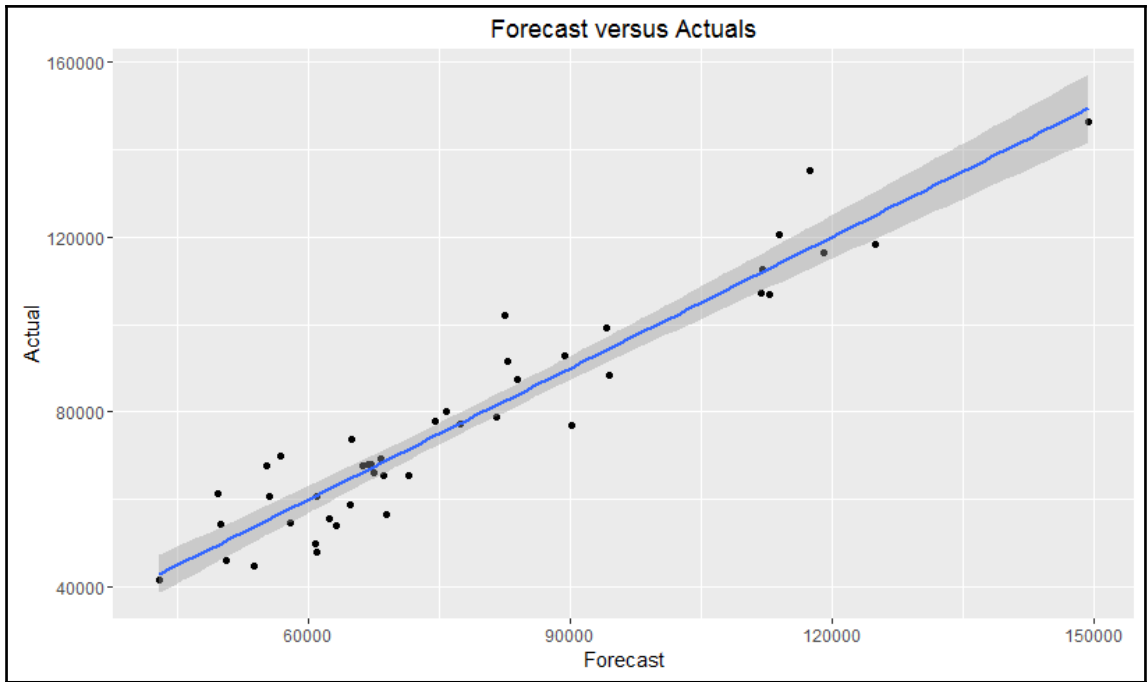




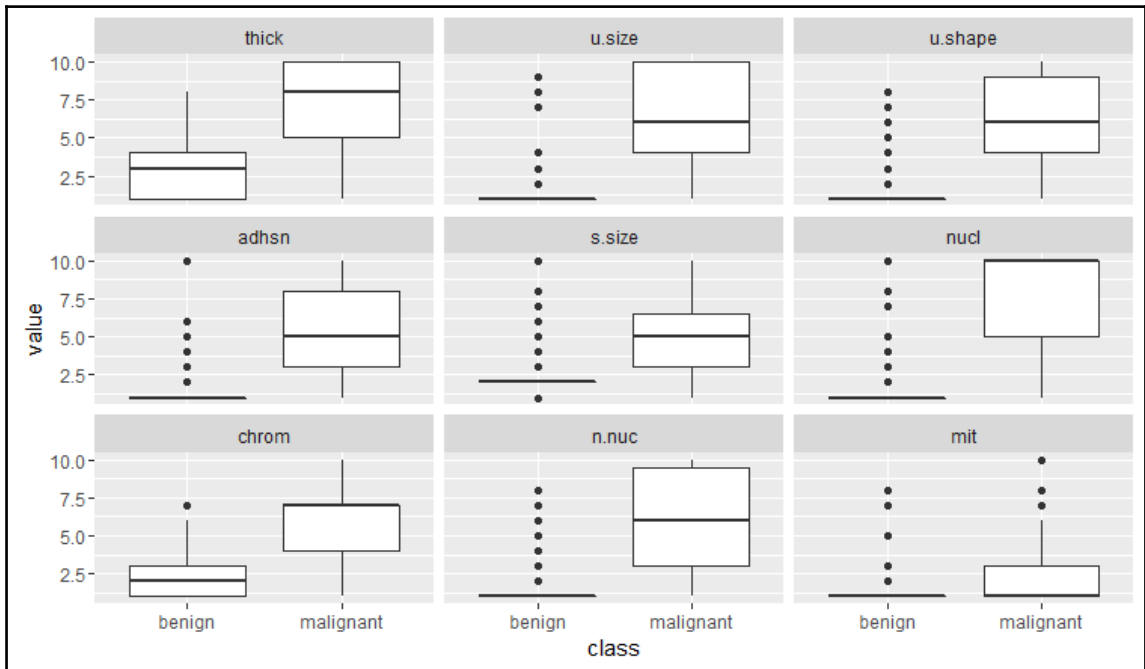


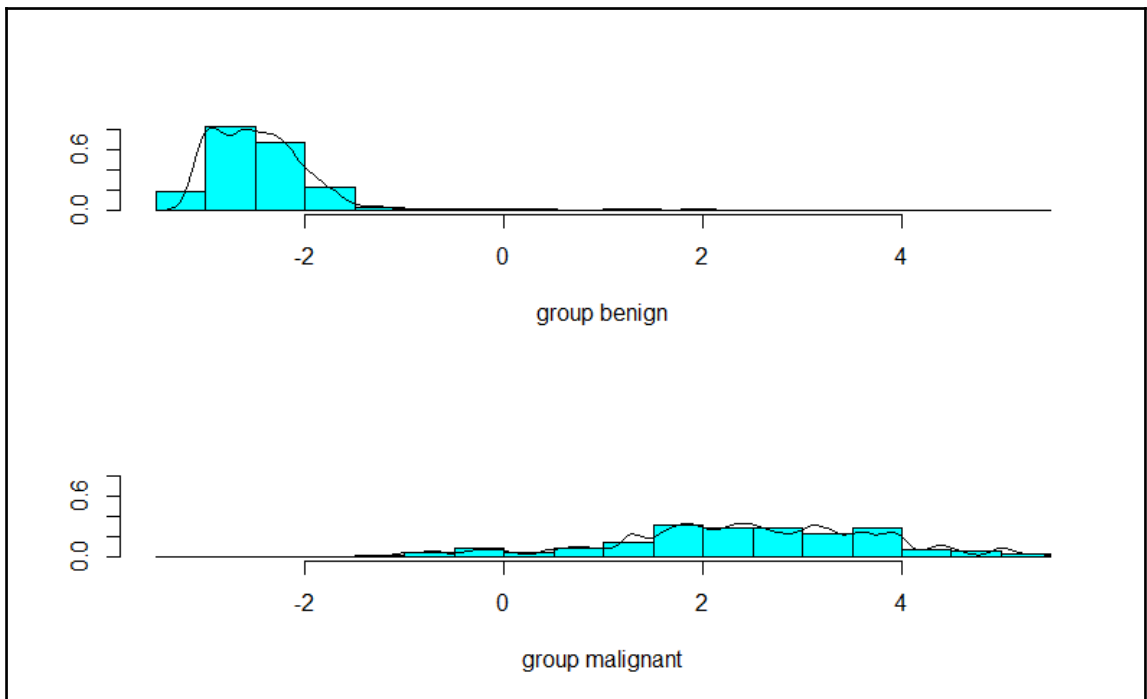
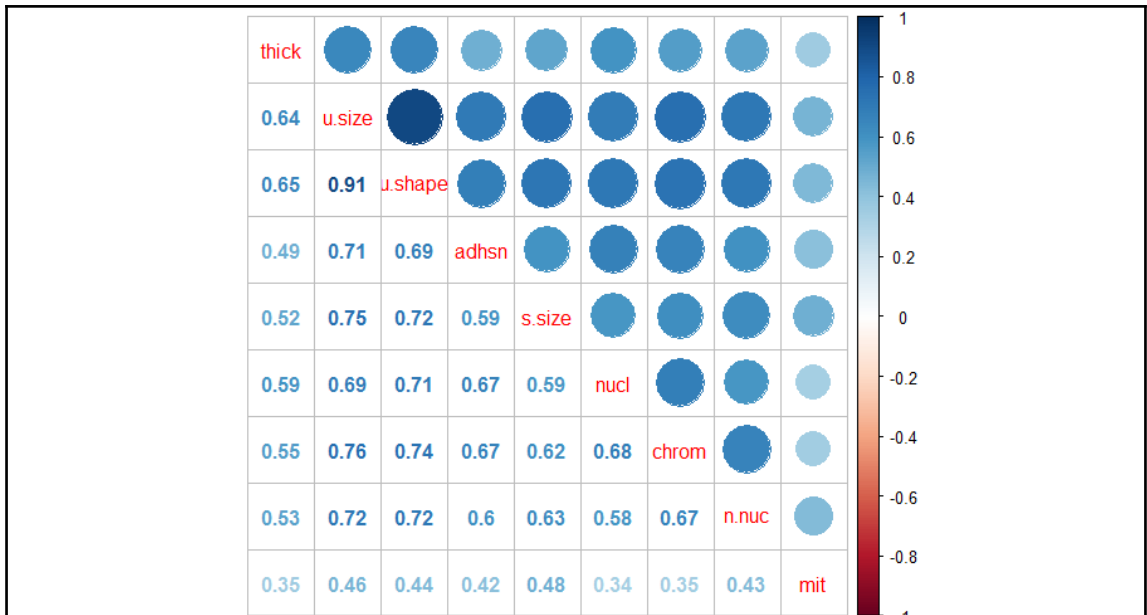


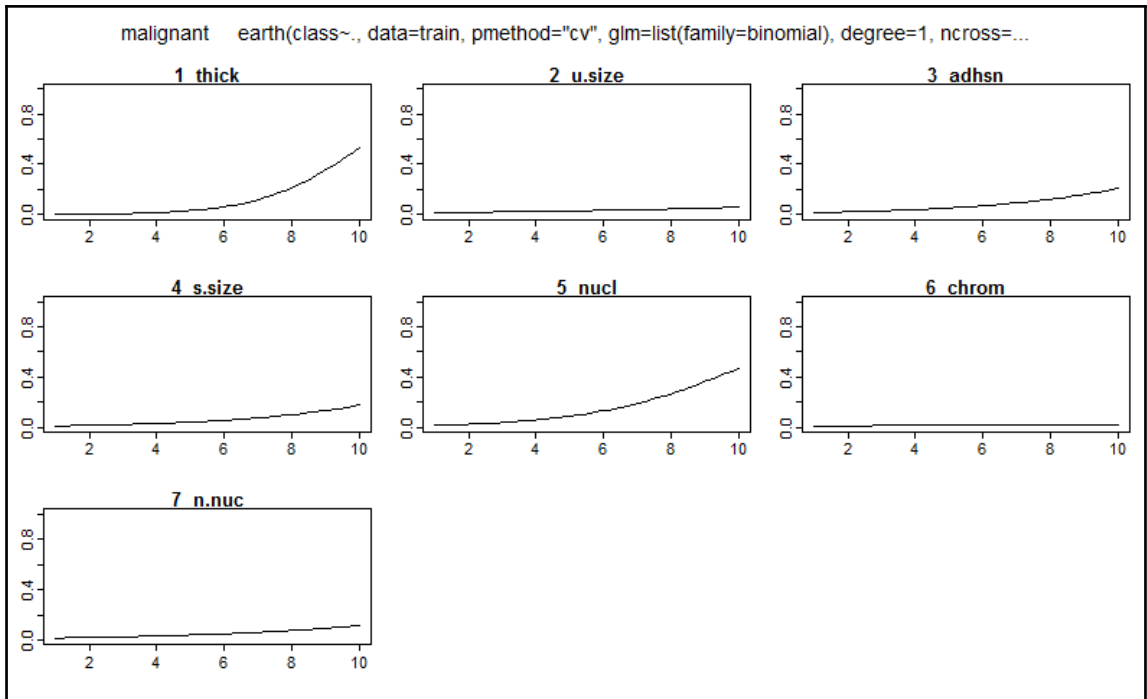


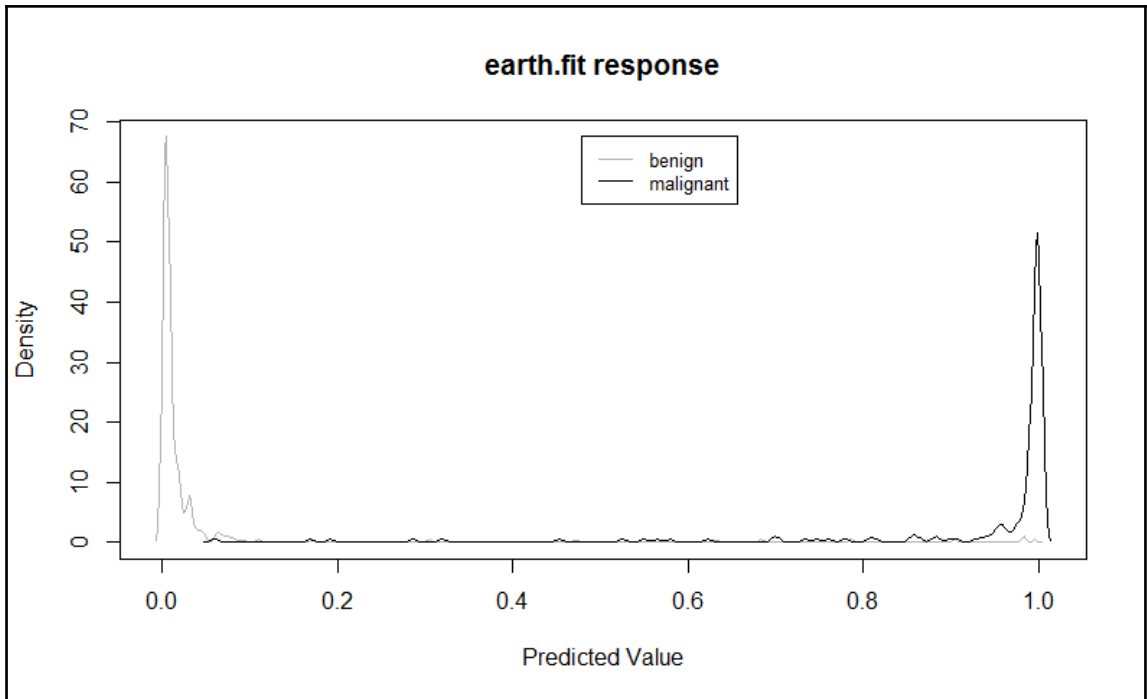


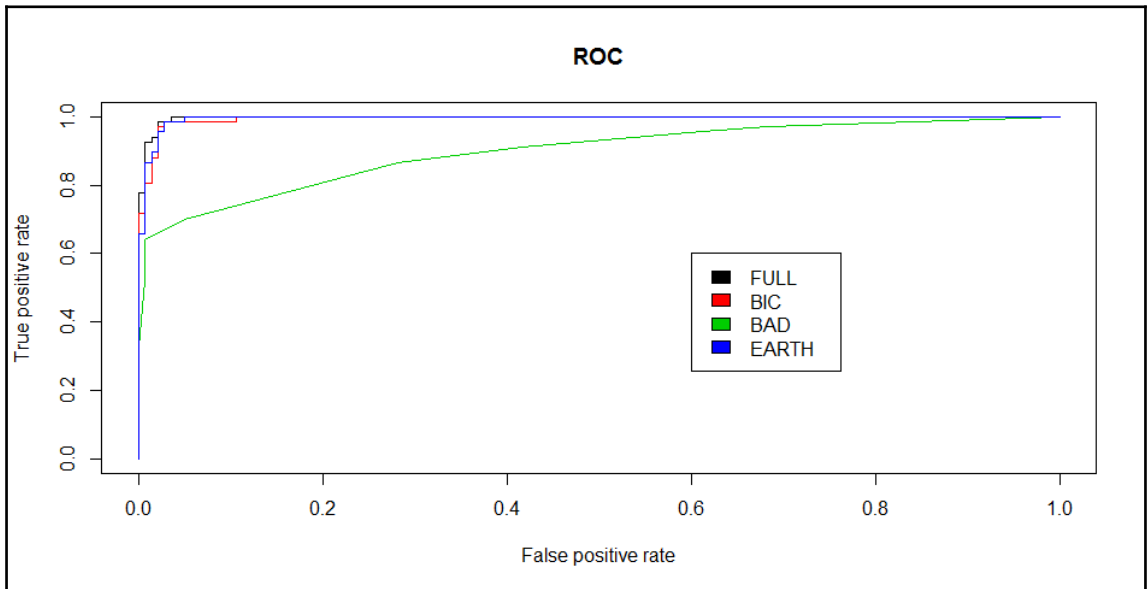
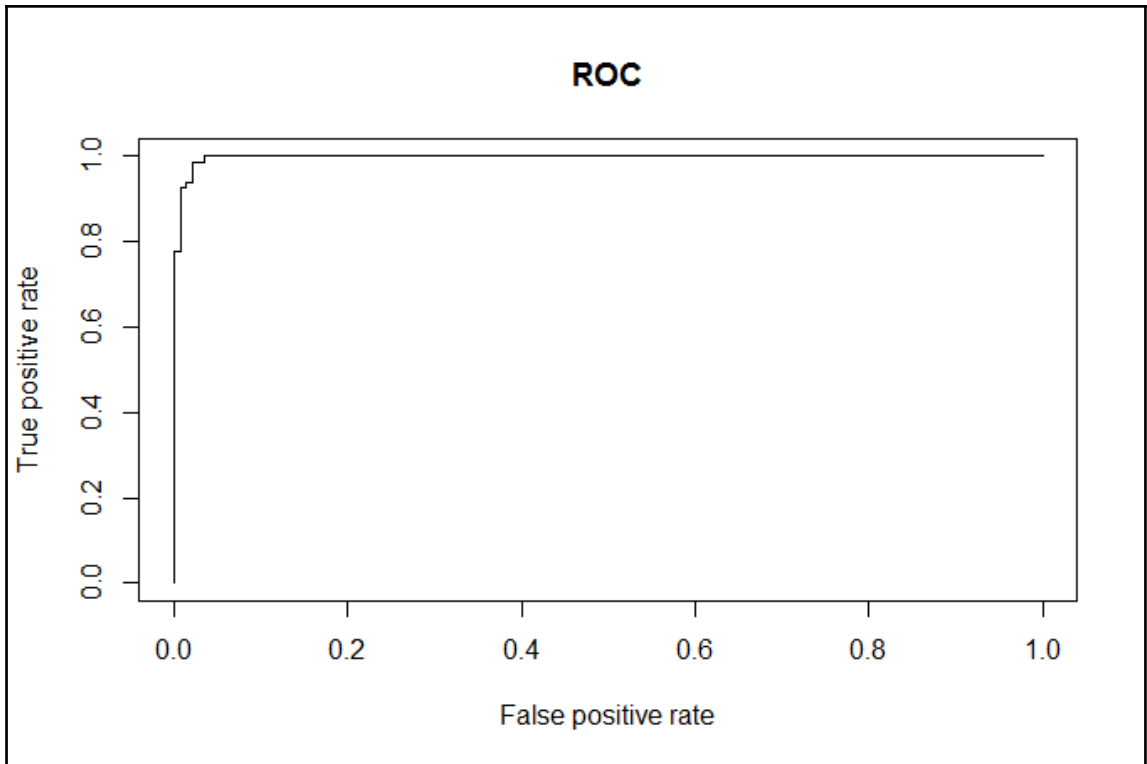
Chapter 3: Logistic Regression and Discriminant Analysis



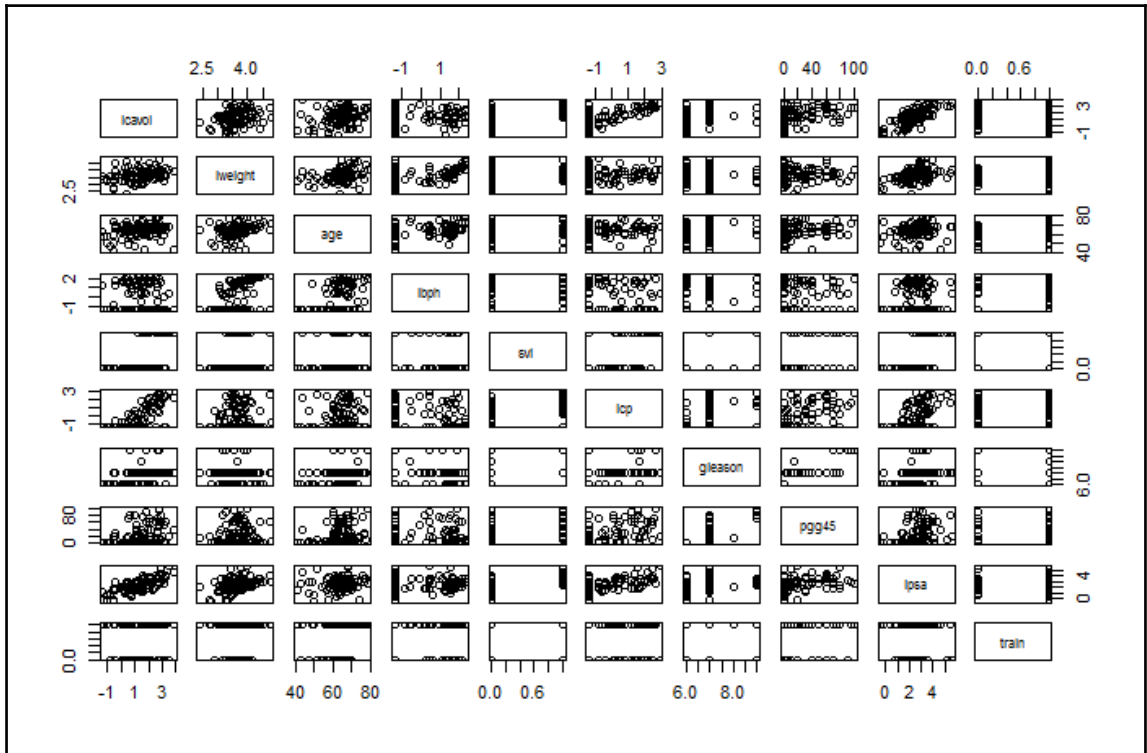


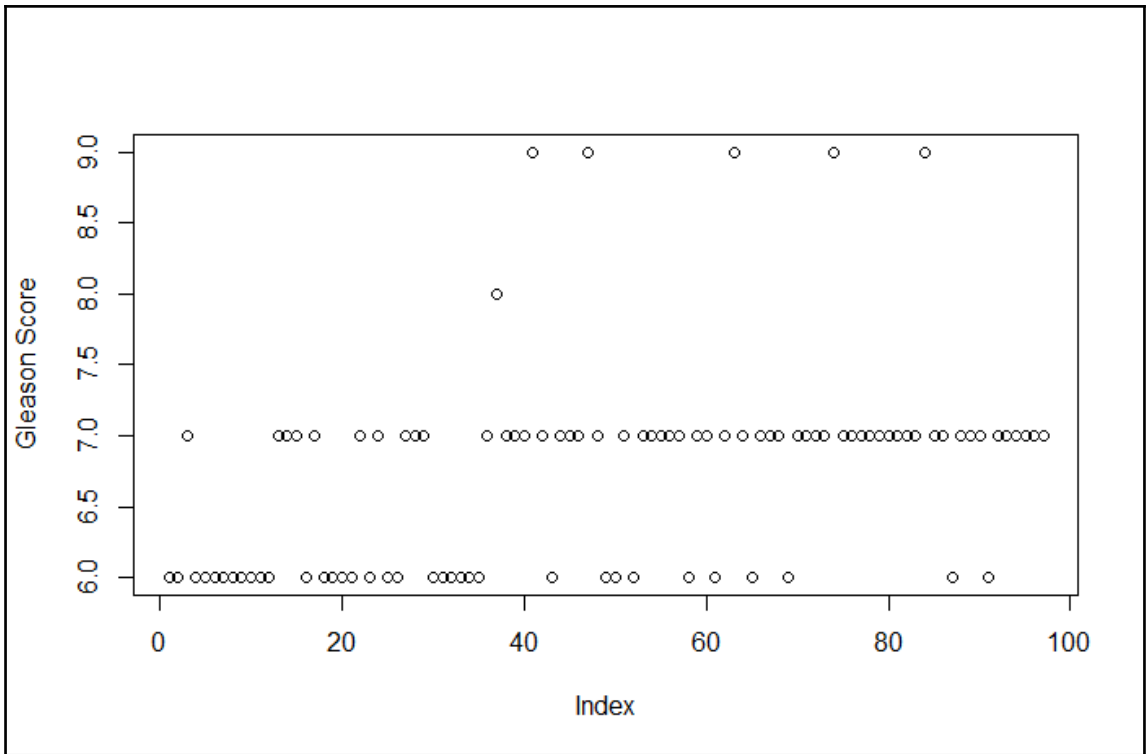


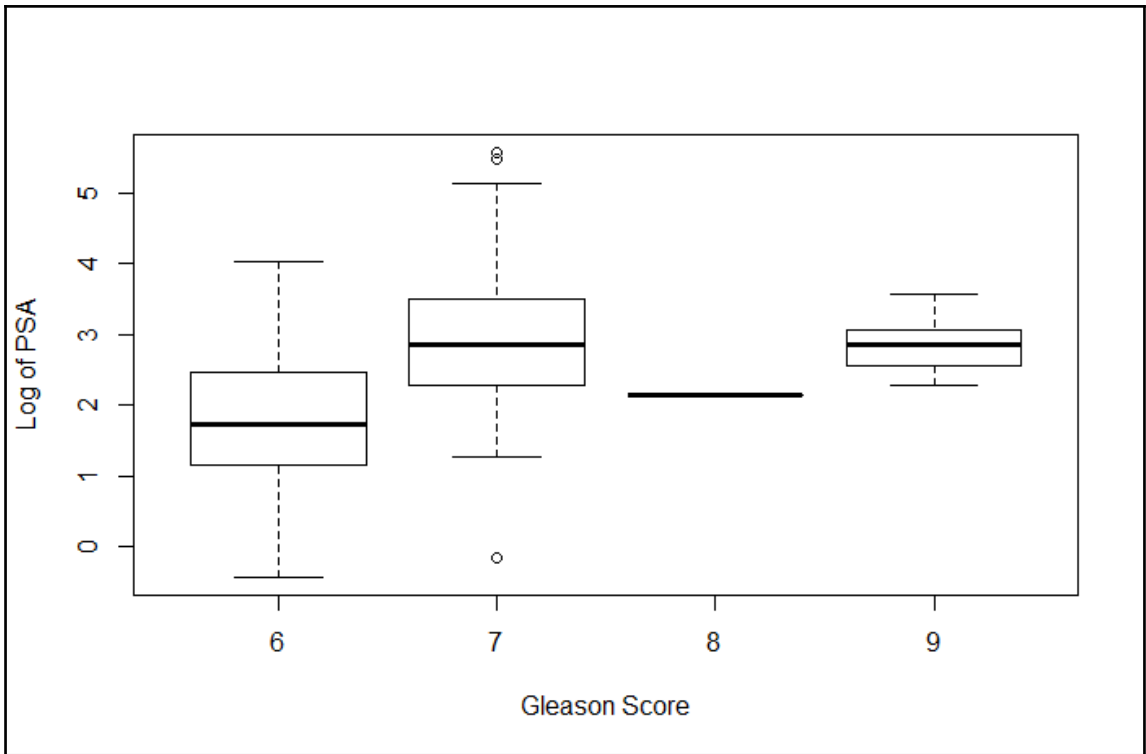


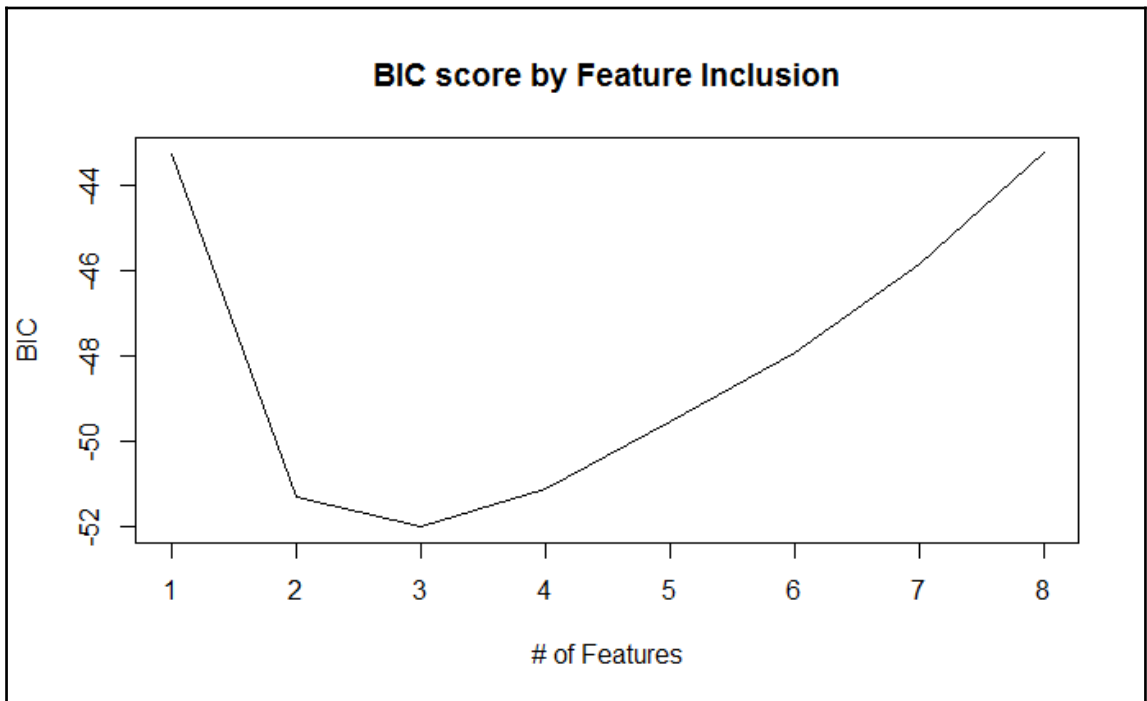


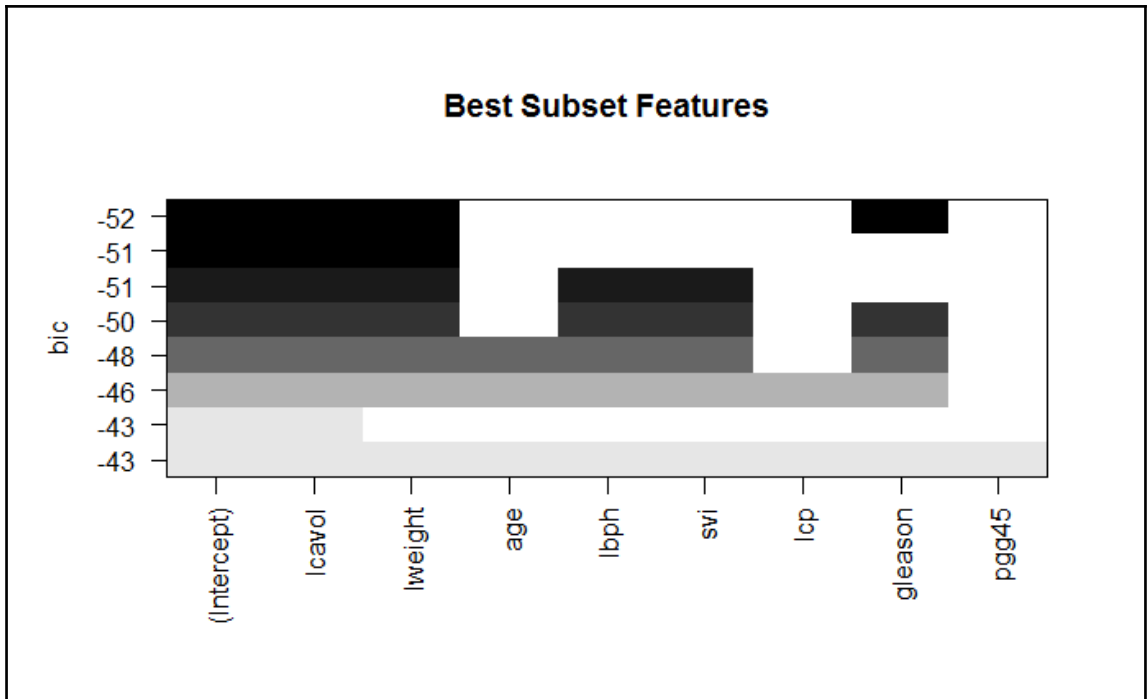
Chapter 4: Advanced Feature Selection in Linear Models

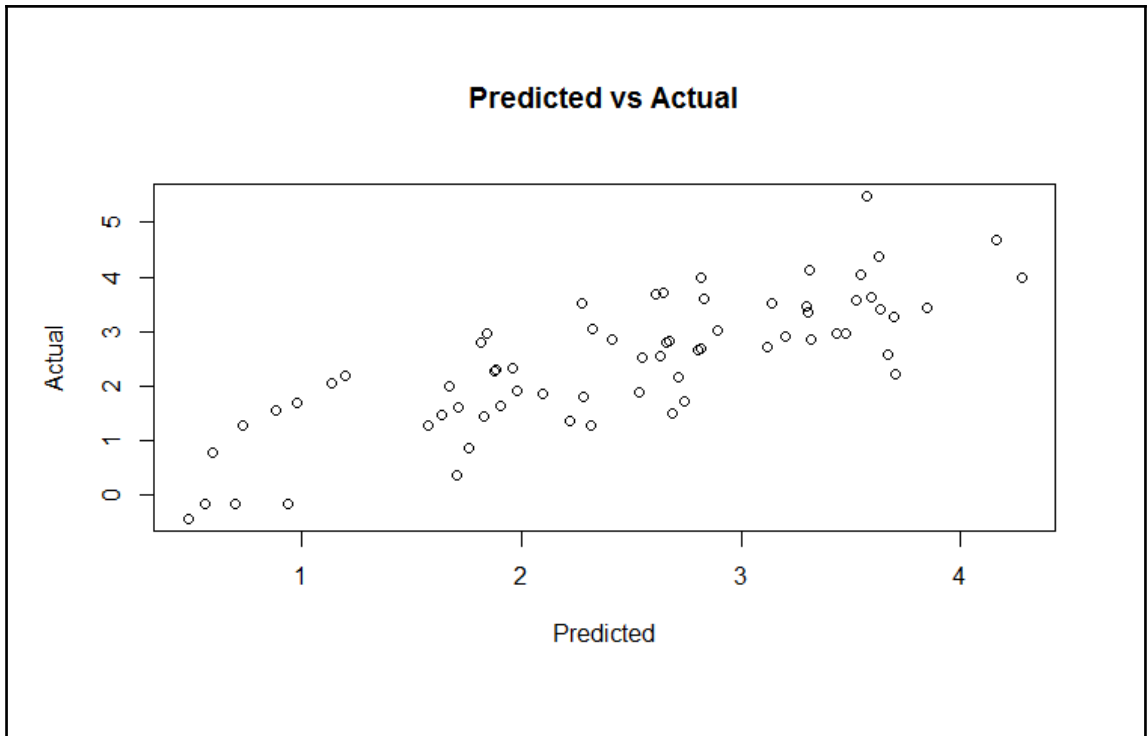


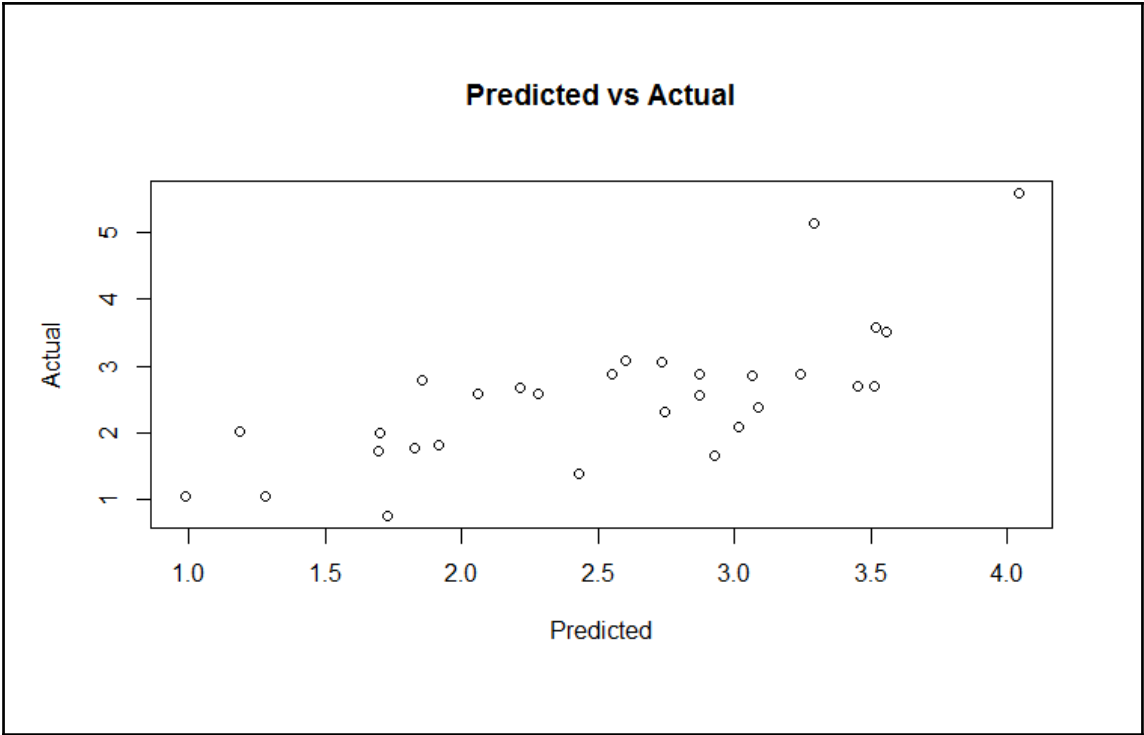


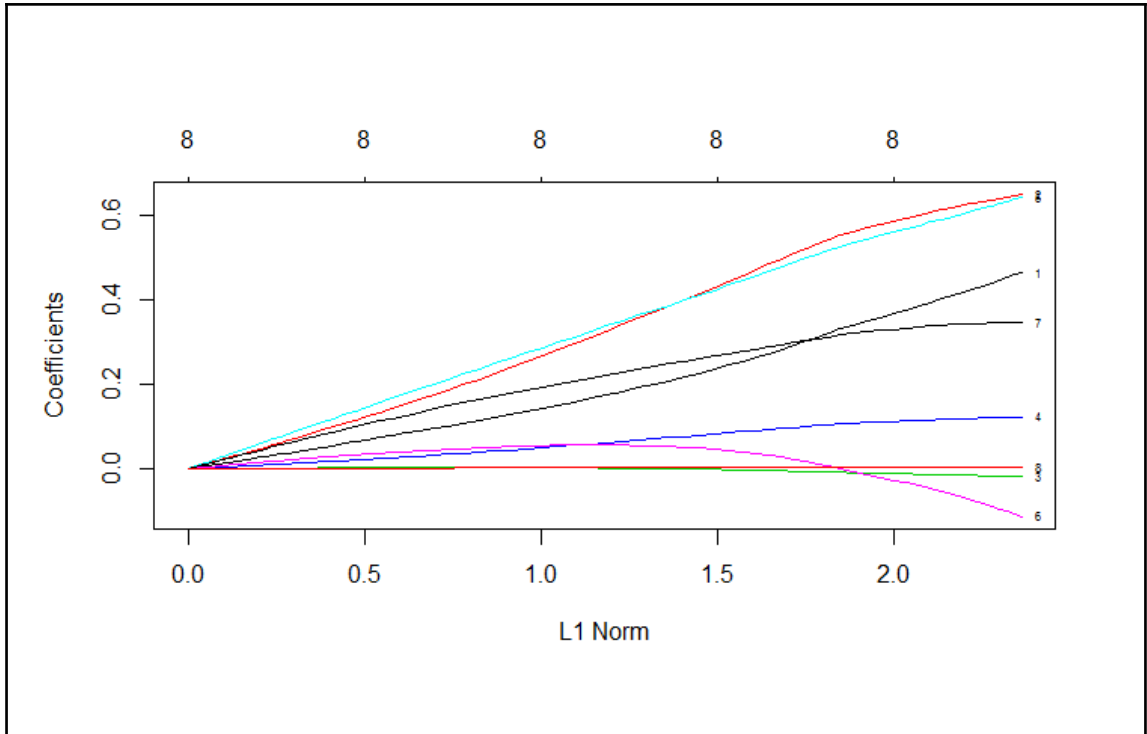


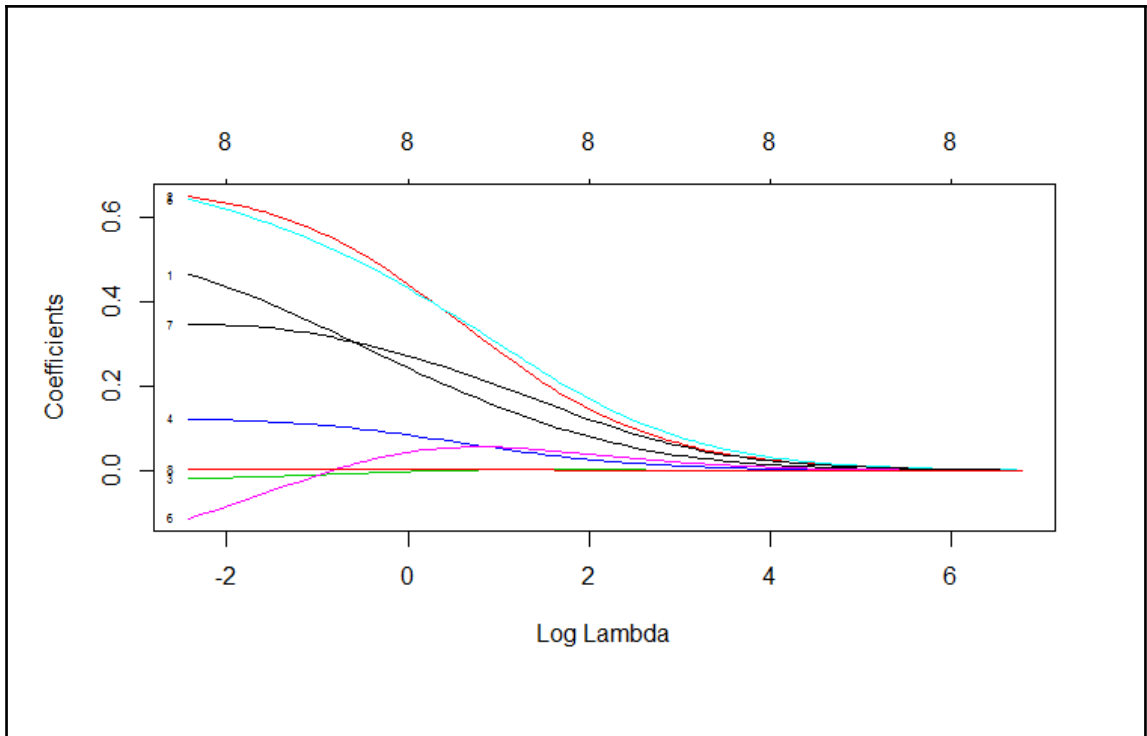


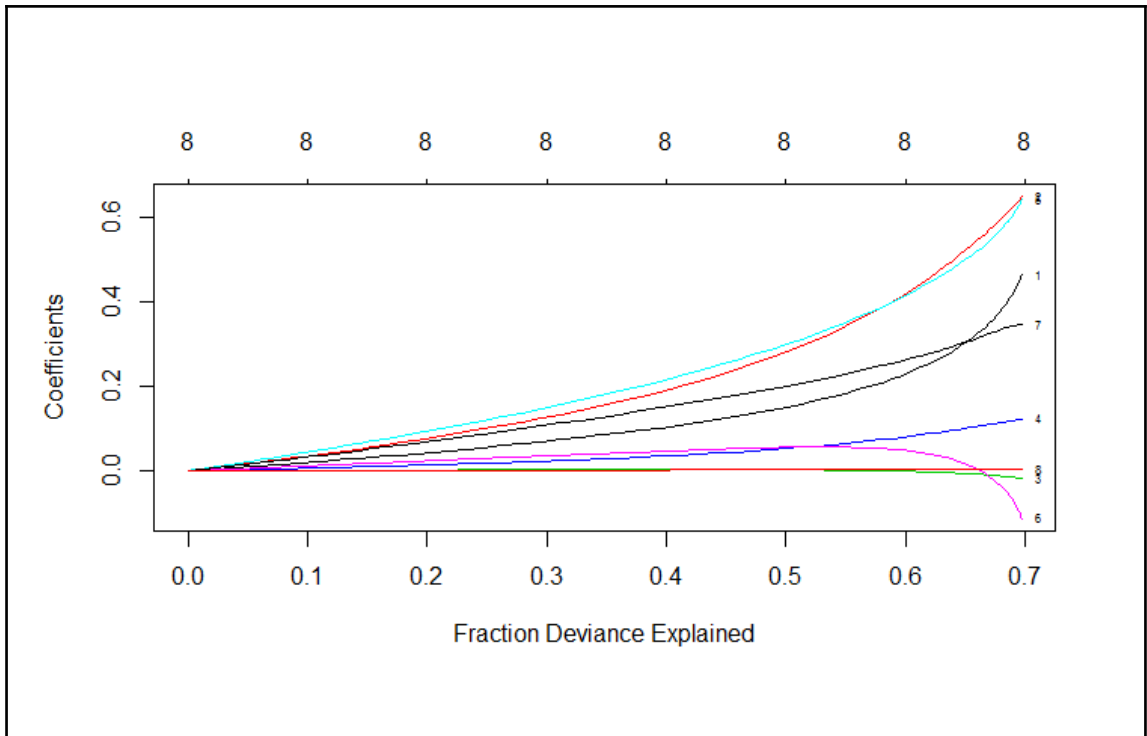


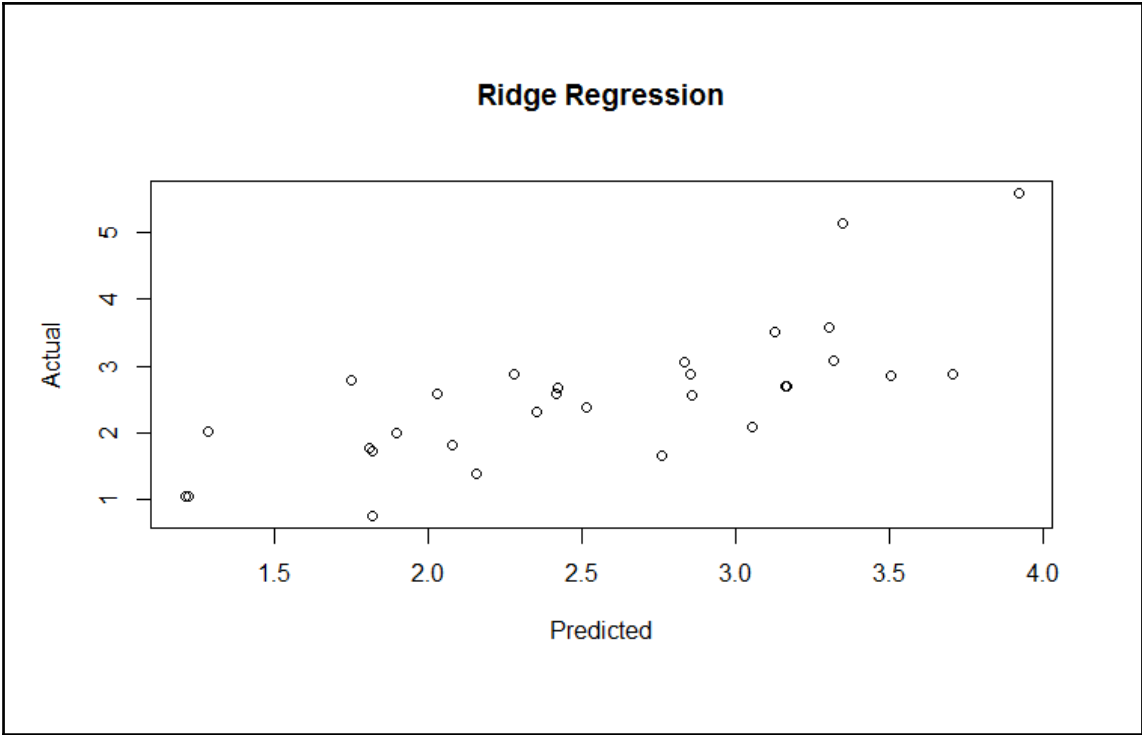


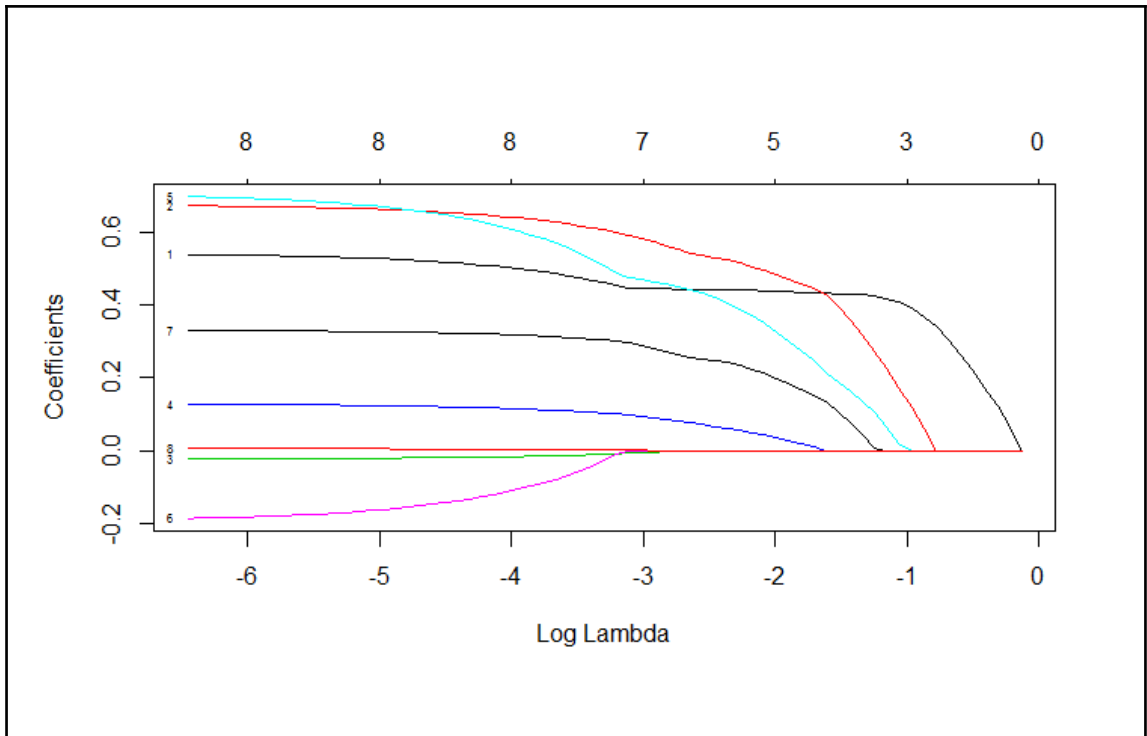


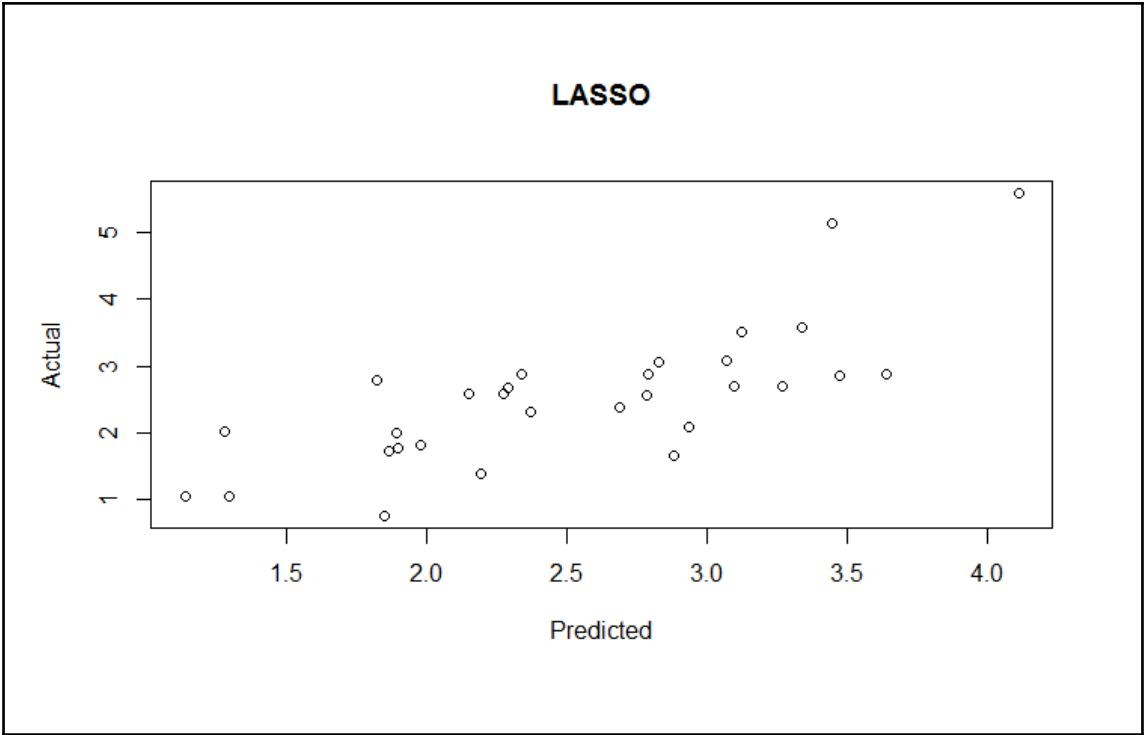


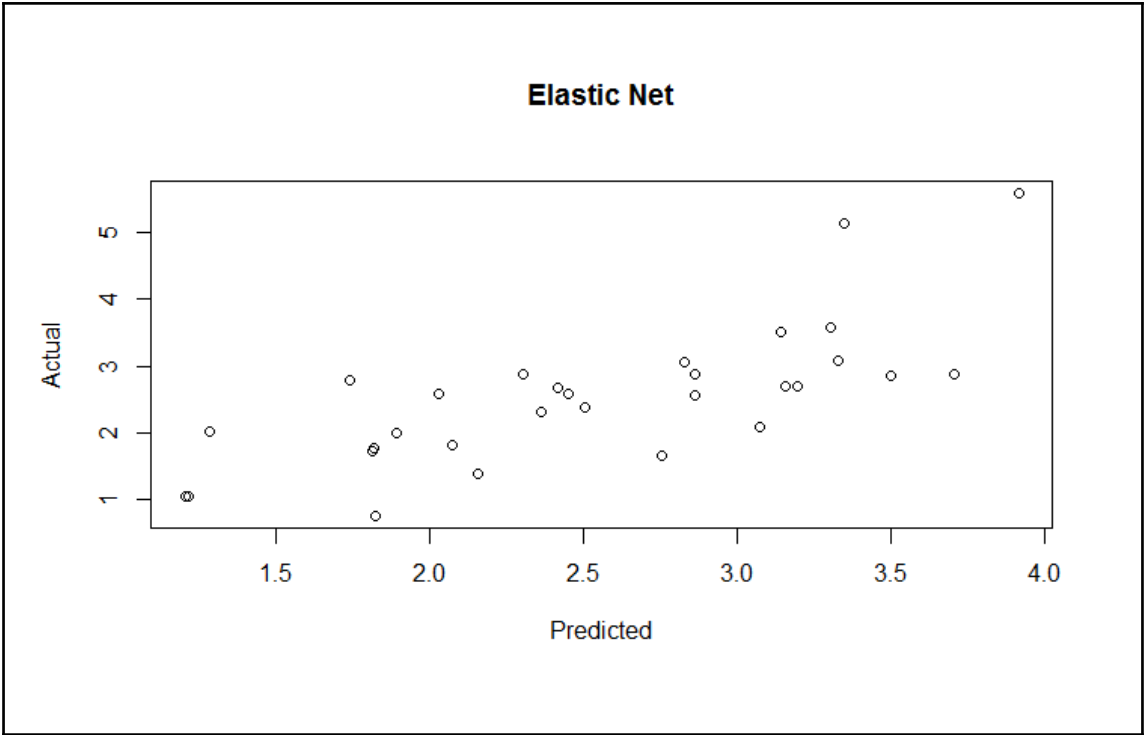


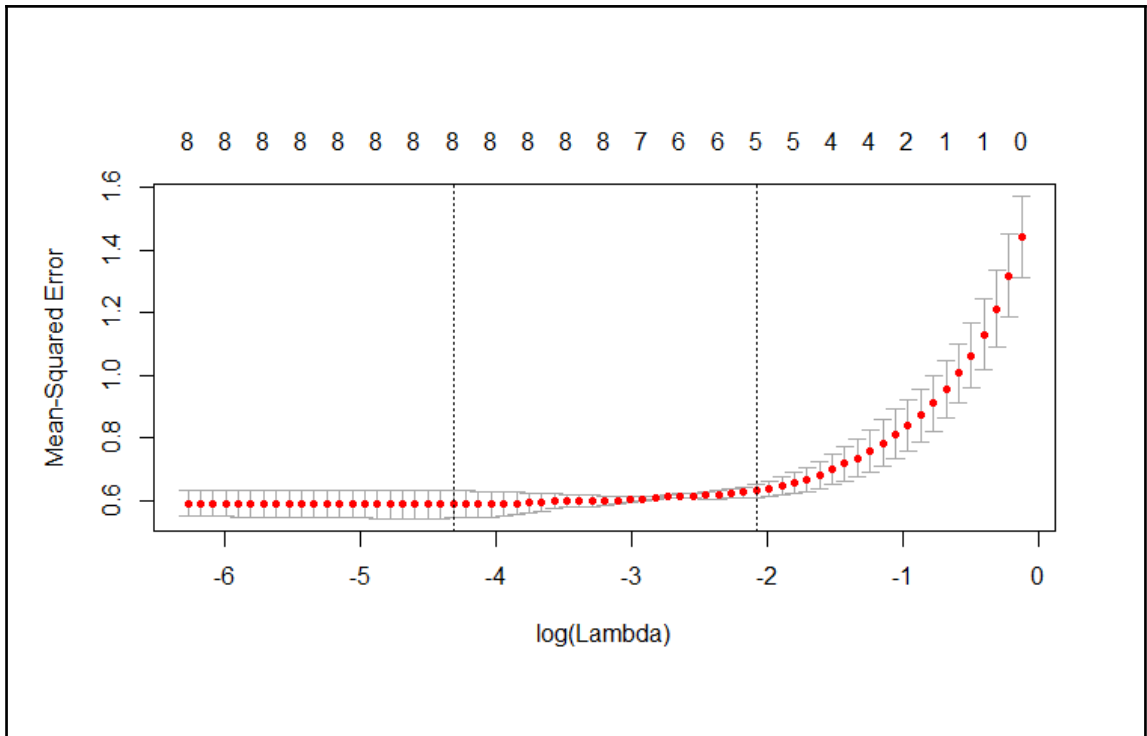


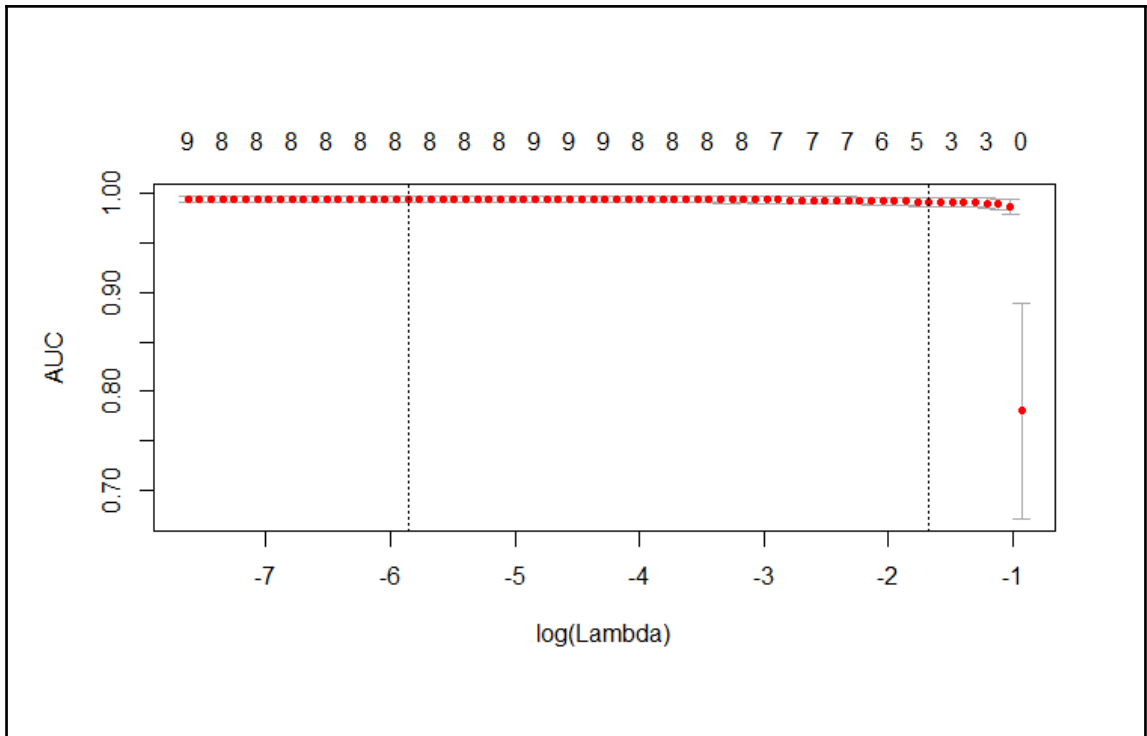


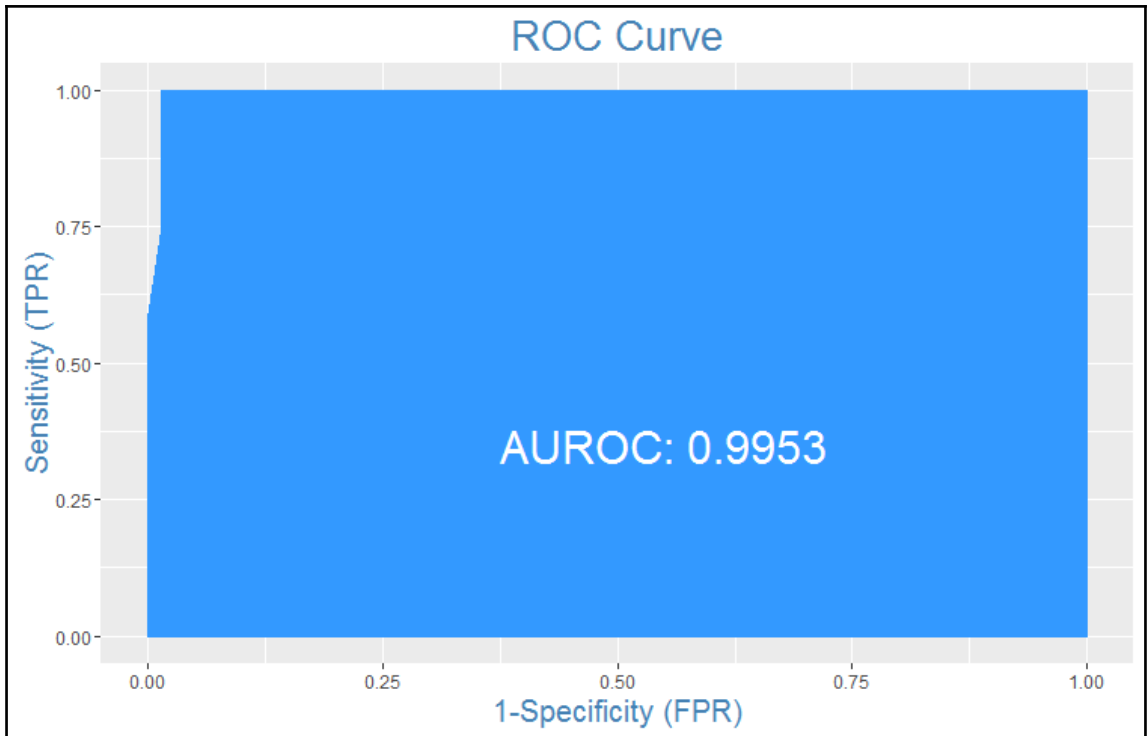




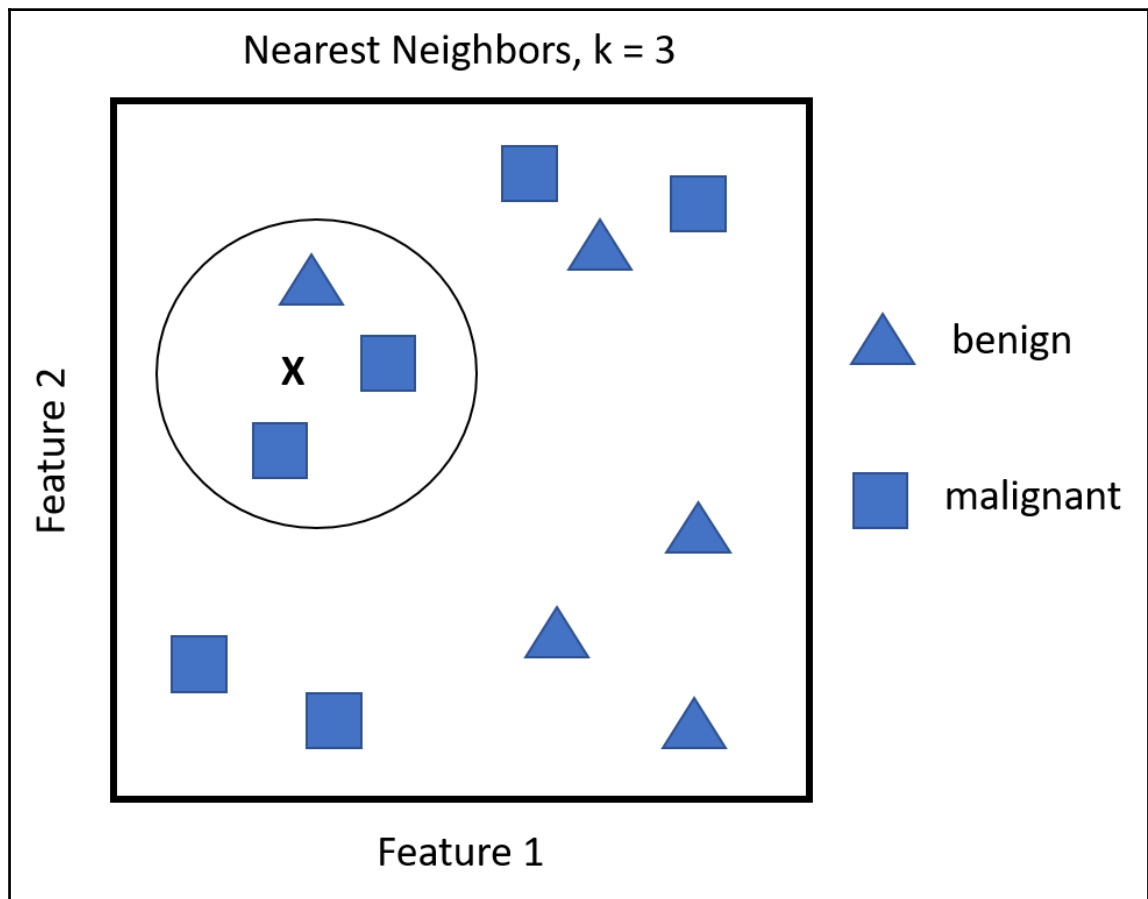


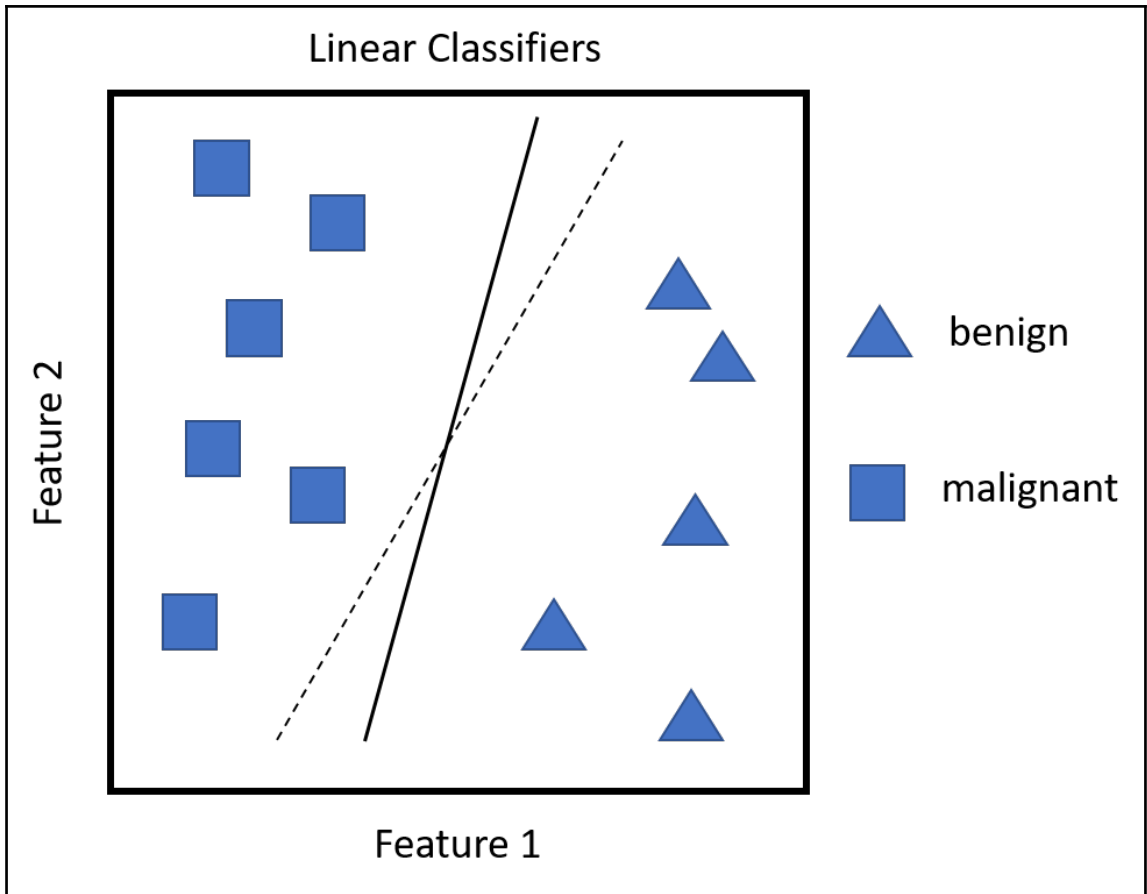


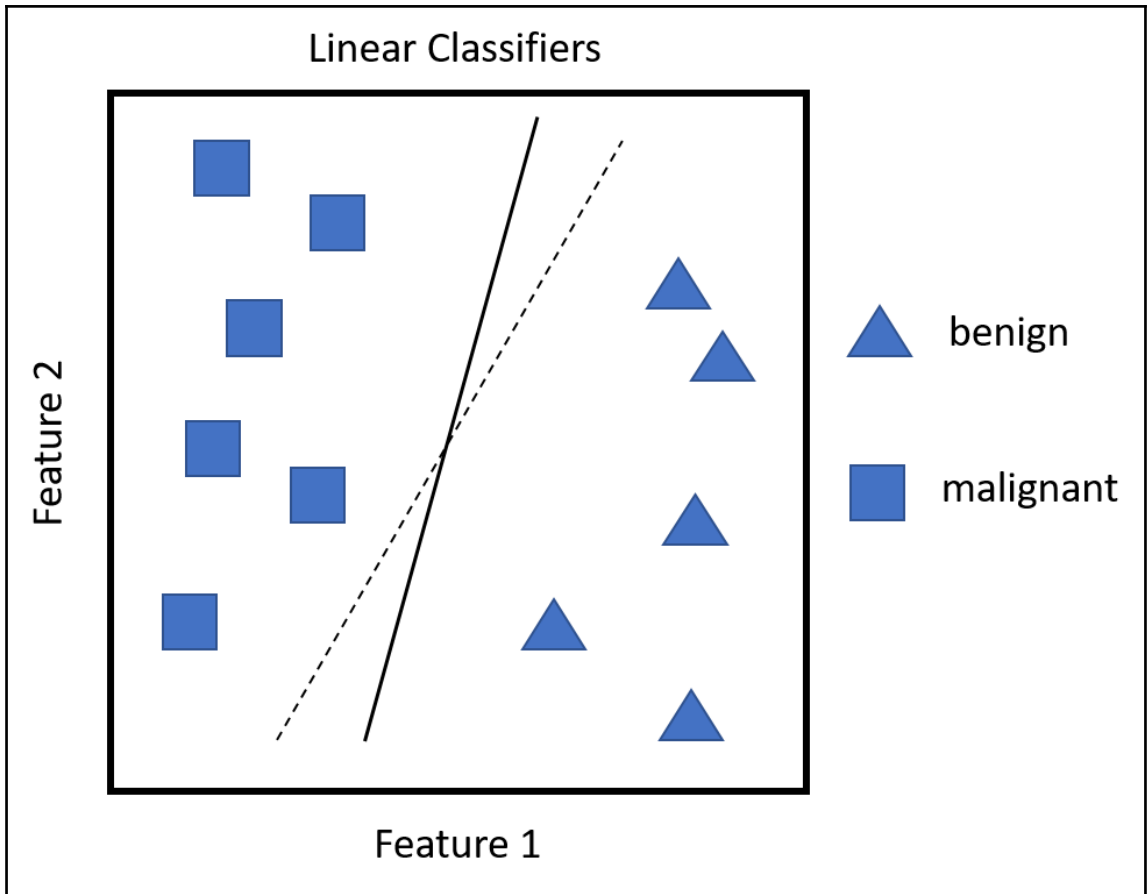


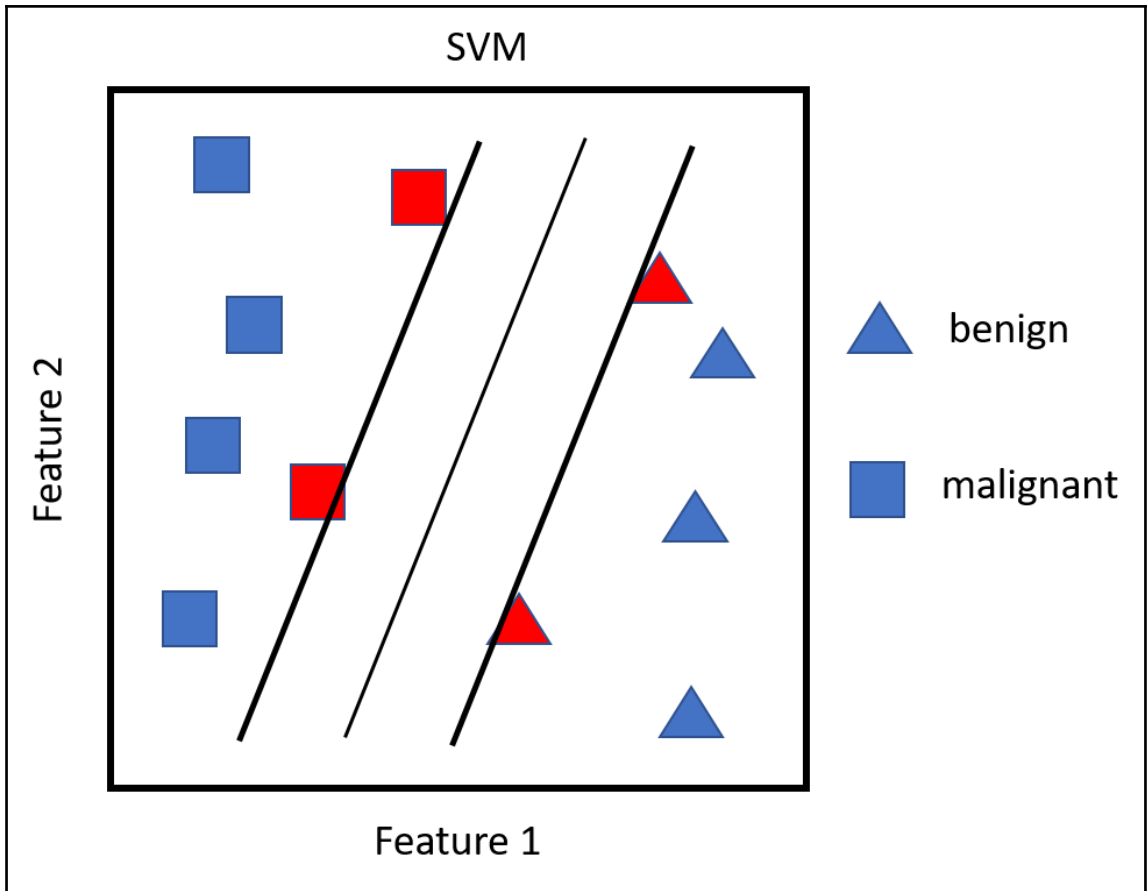


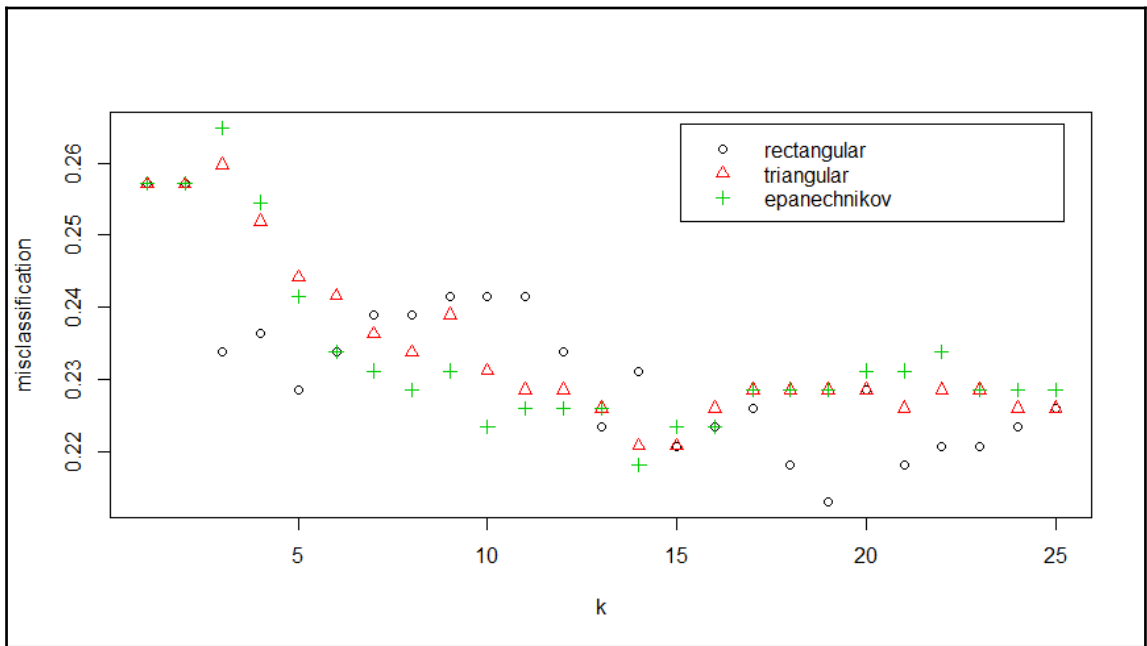
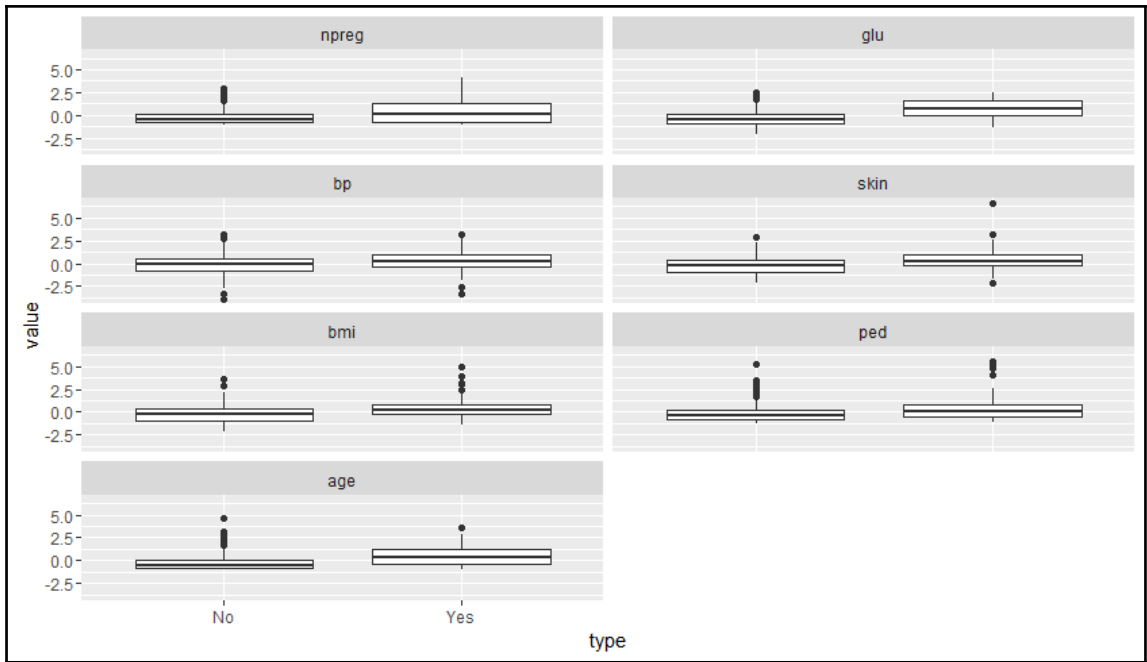
Chapter 5: More Classification Techniques - K-Nearest Neighbors and Support Vector Machines



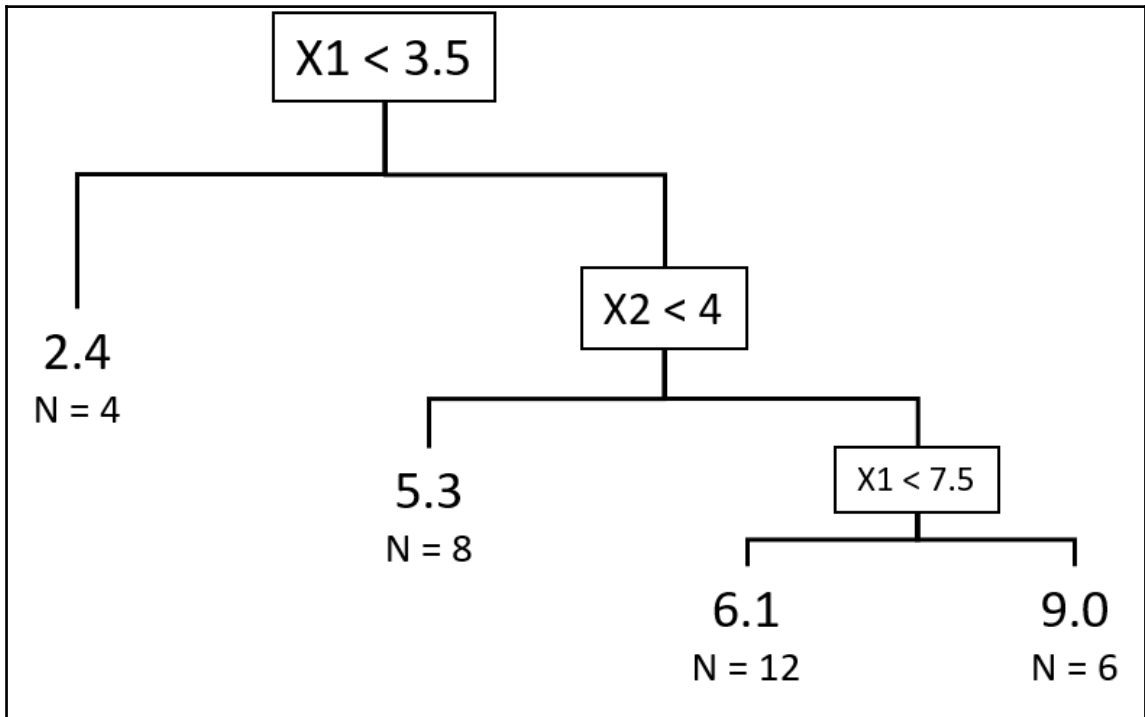


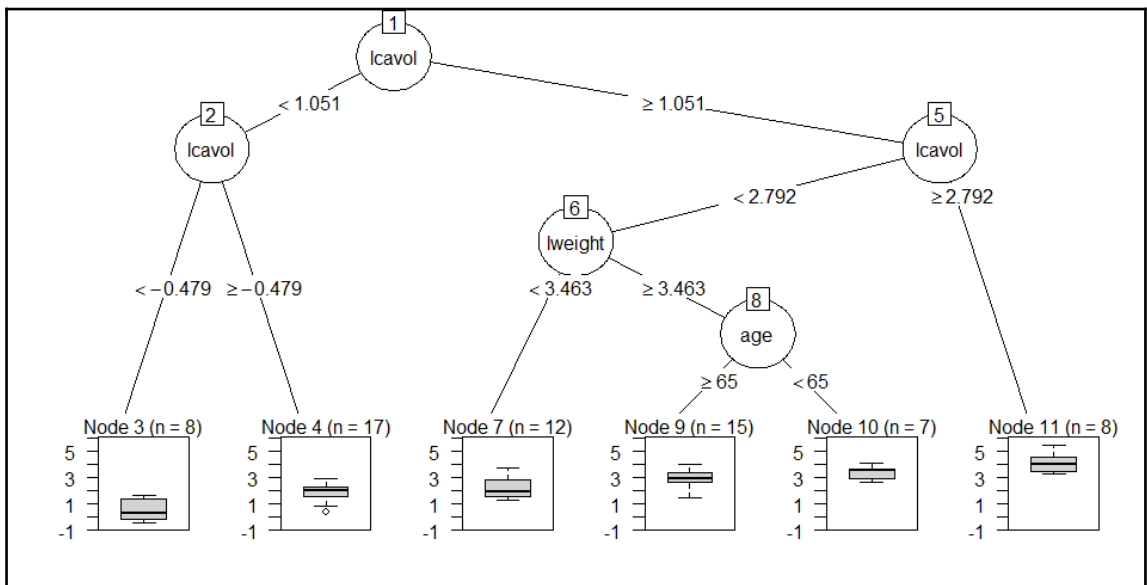
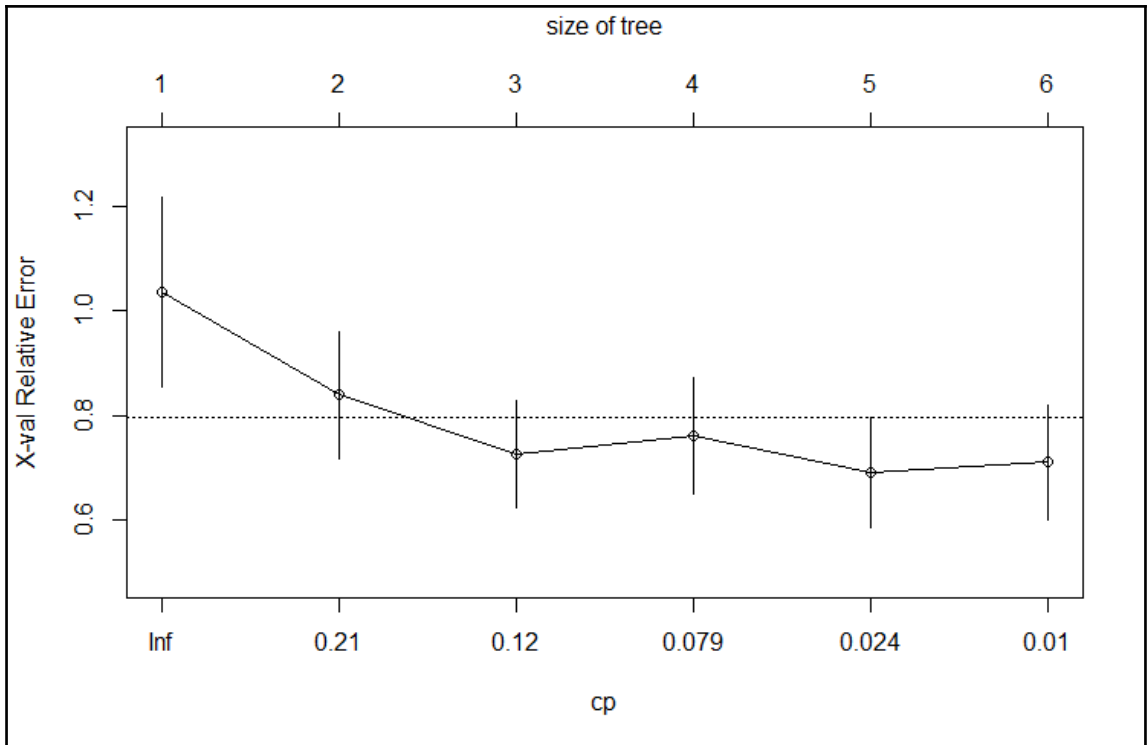


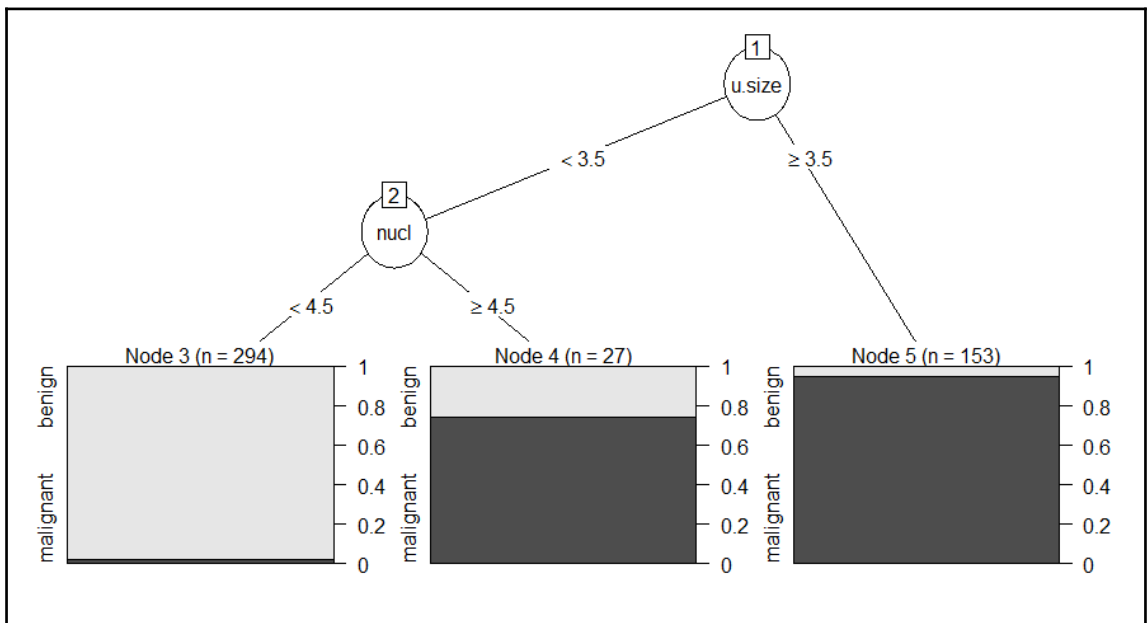
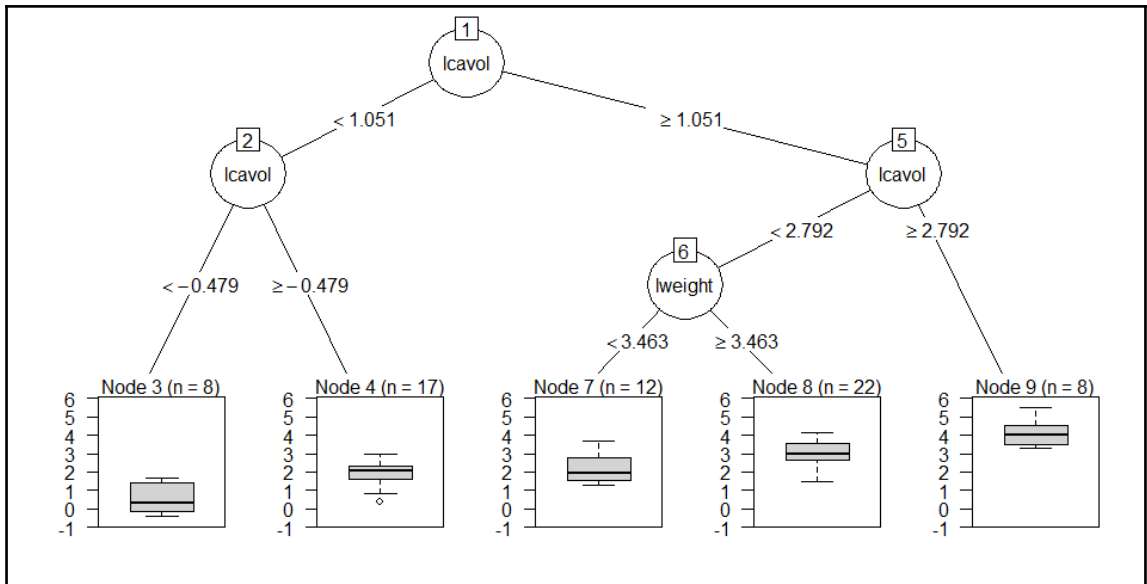


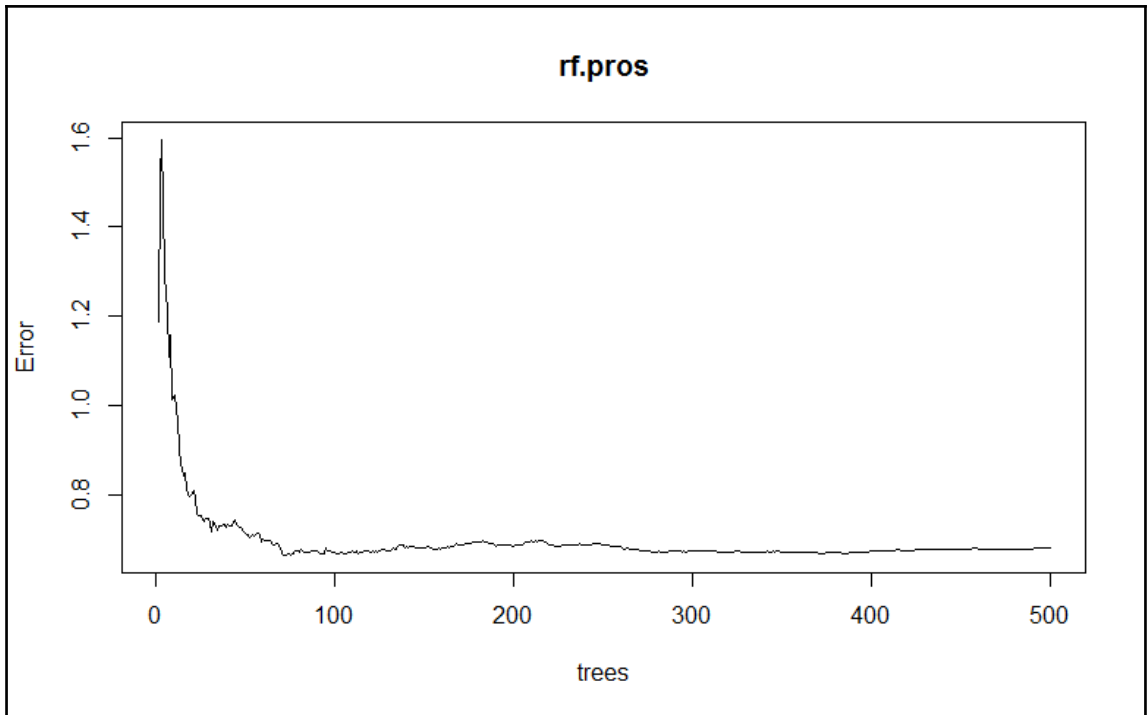


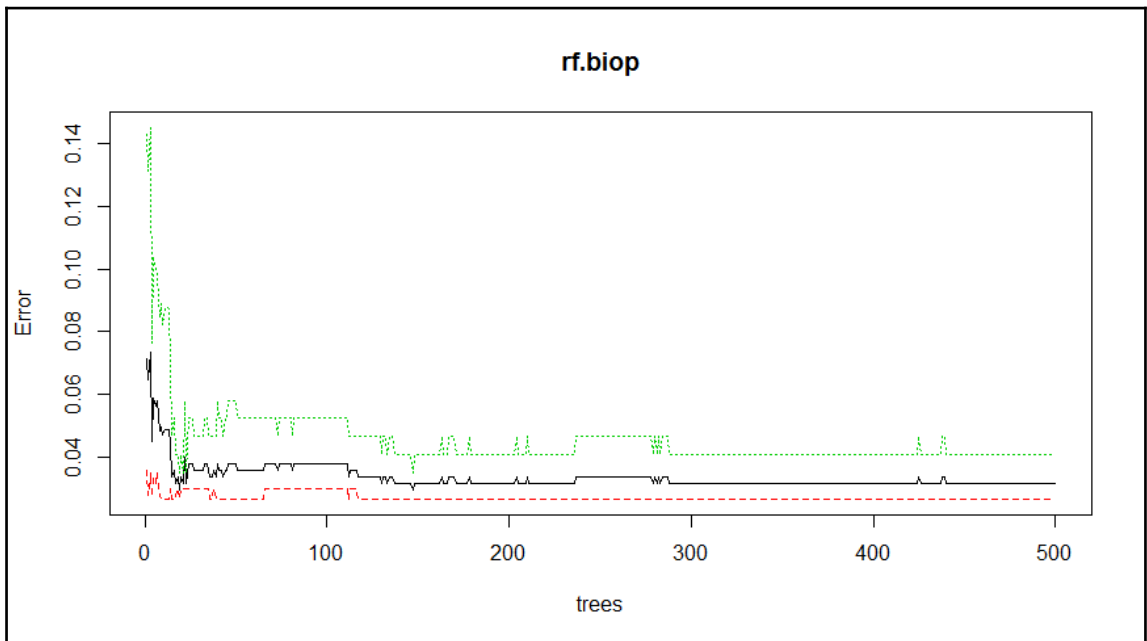
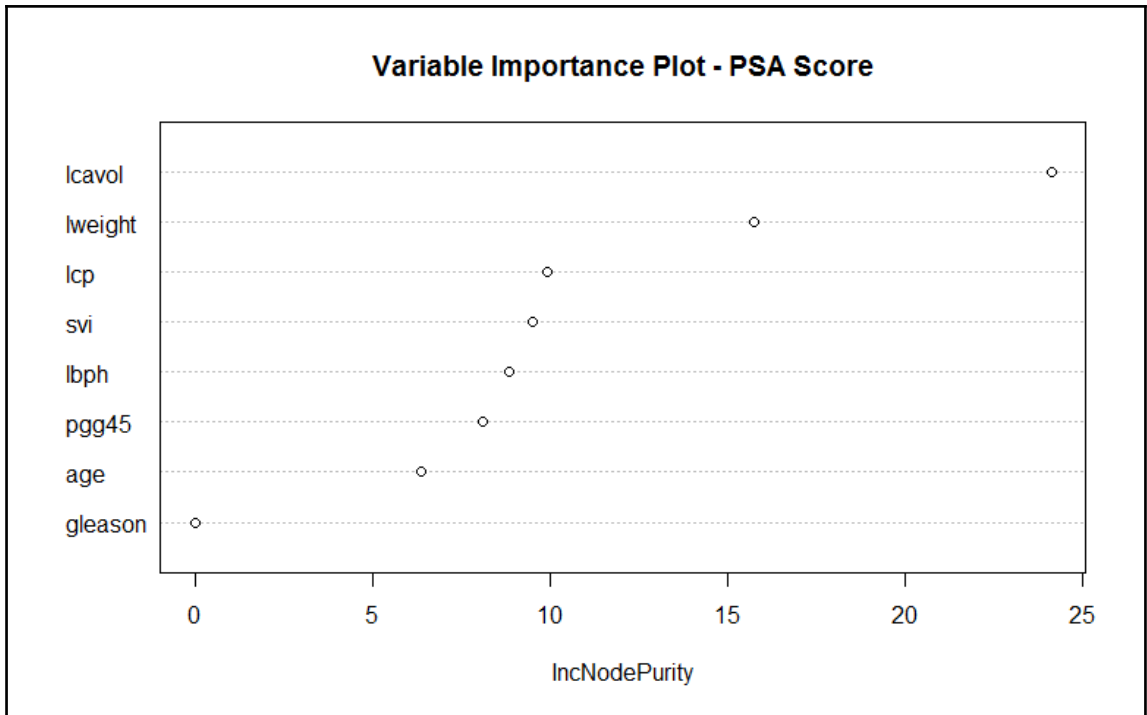
Chapter 6: Classification and Regression Trees

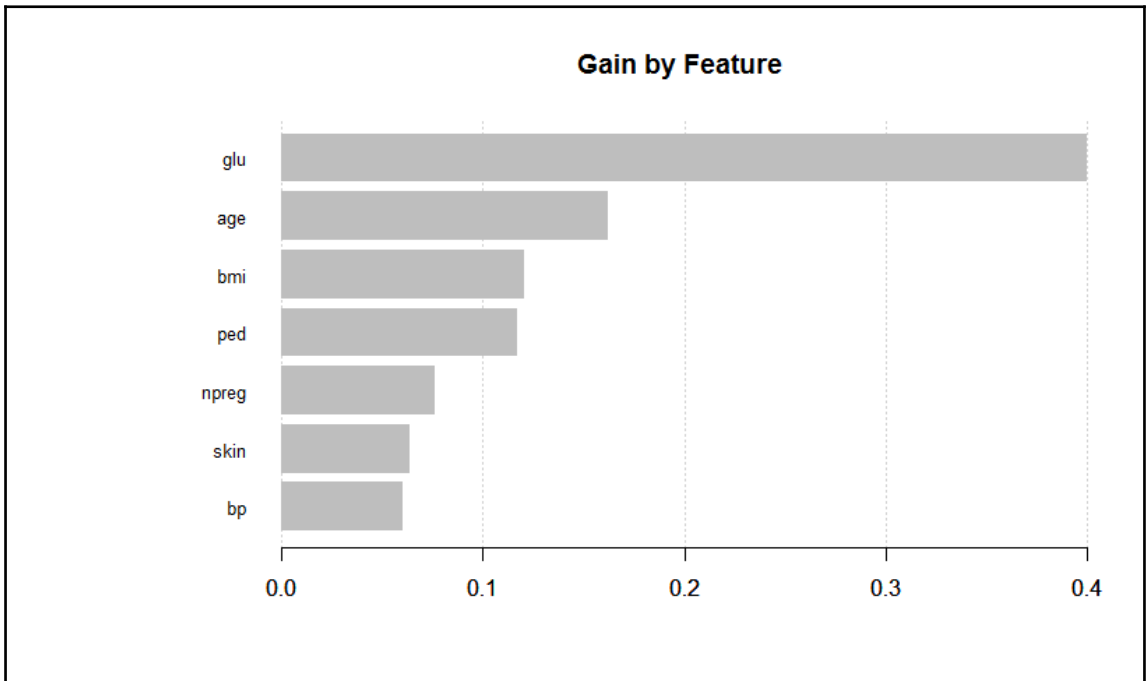
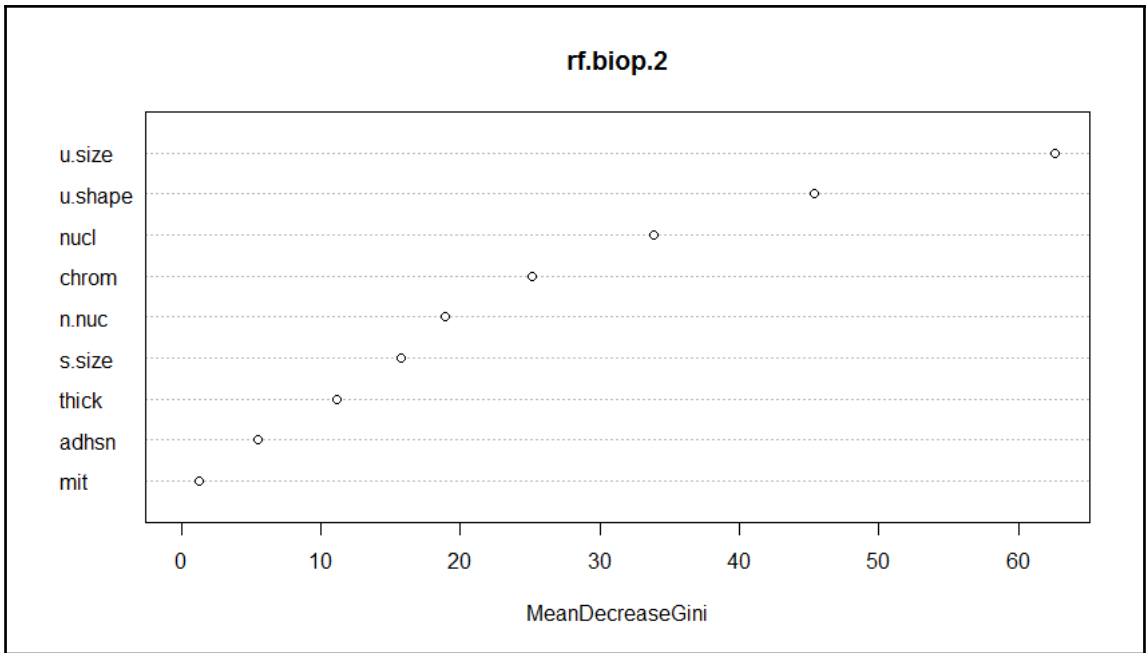


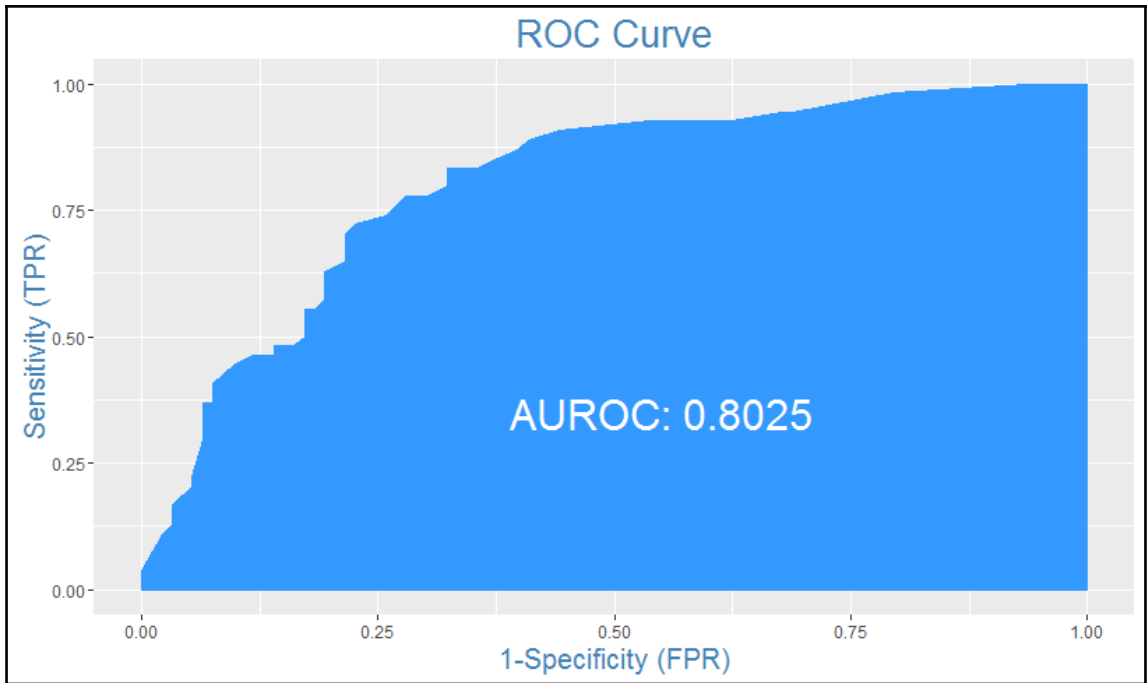




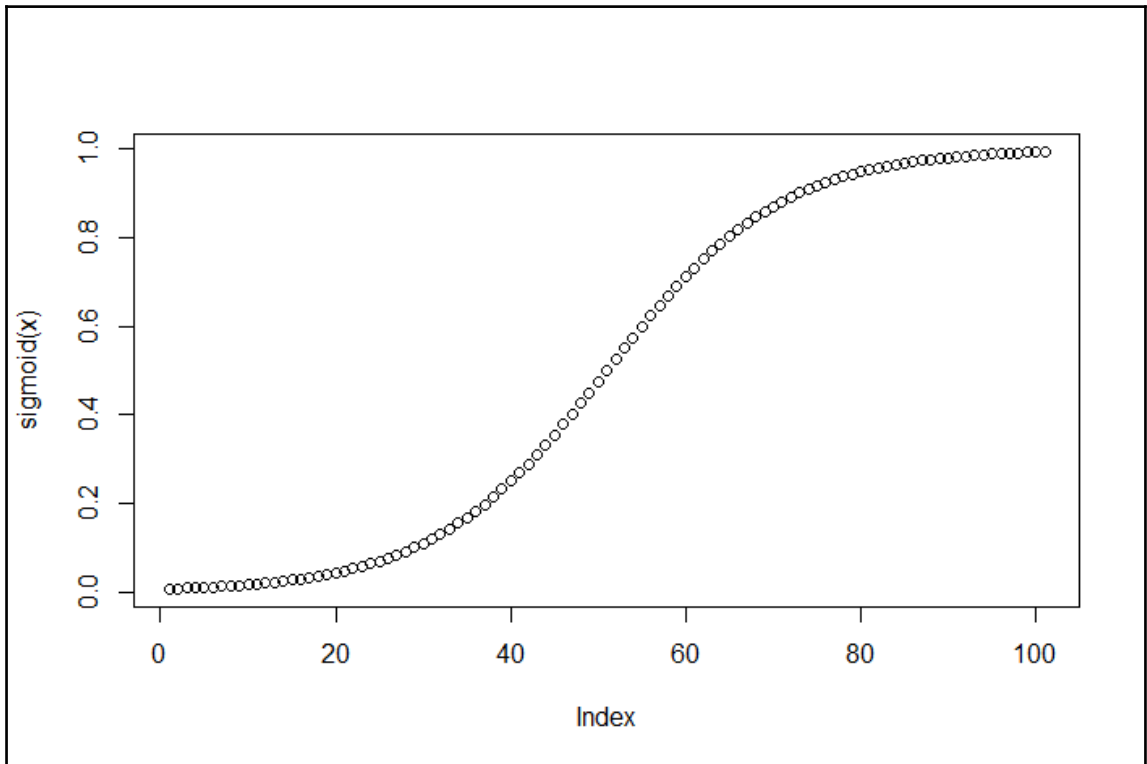


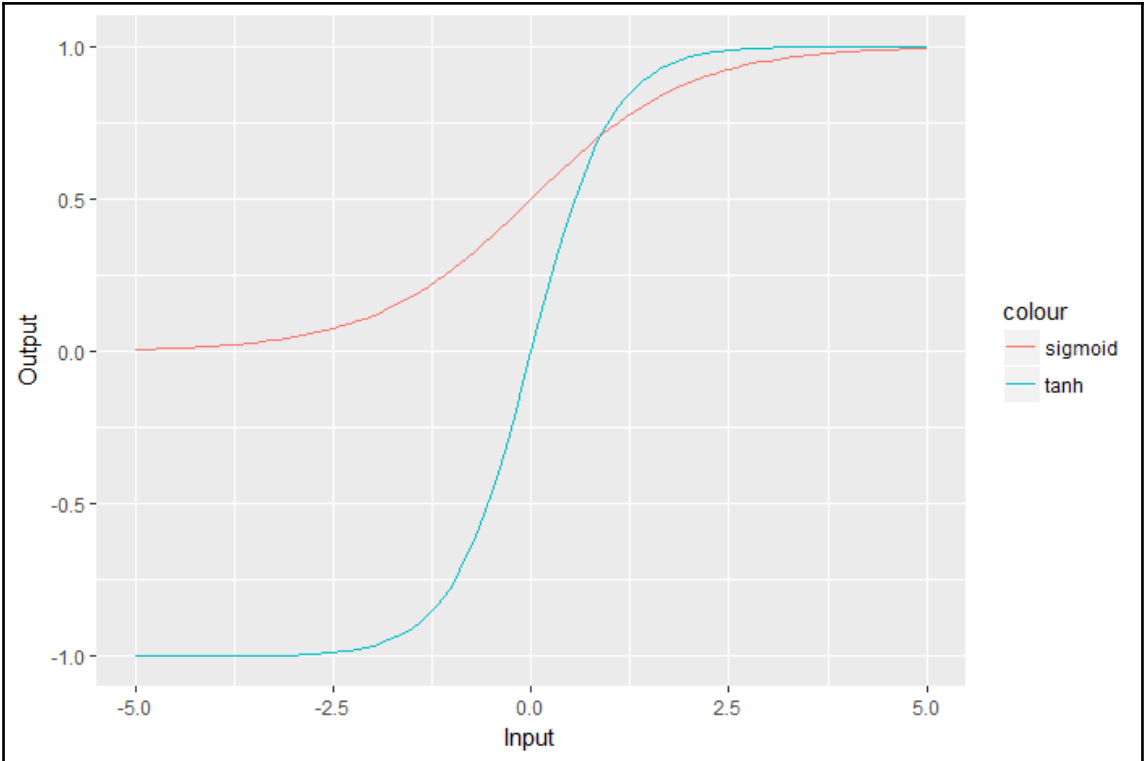


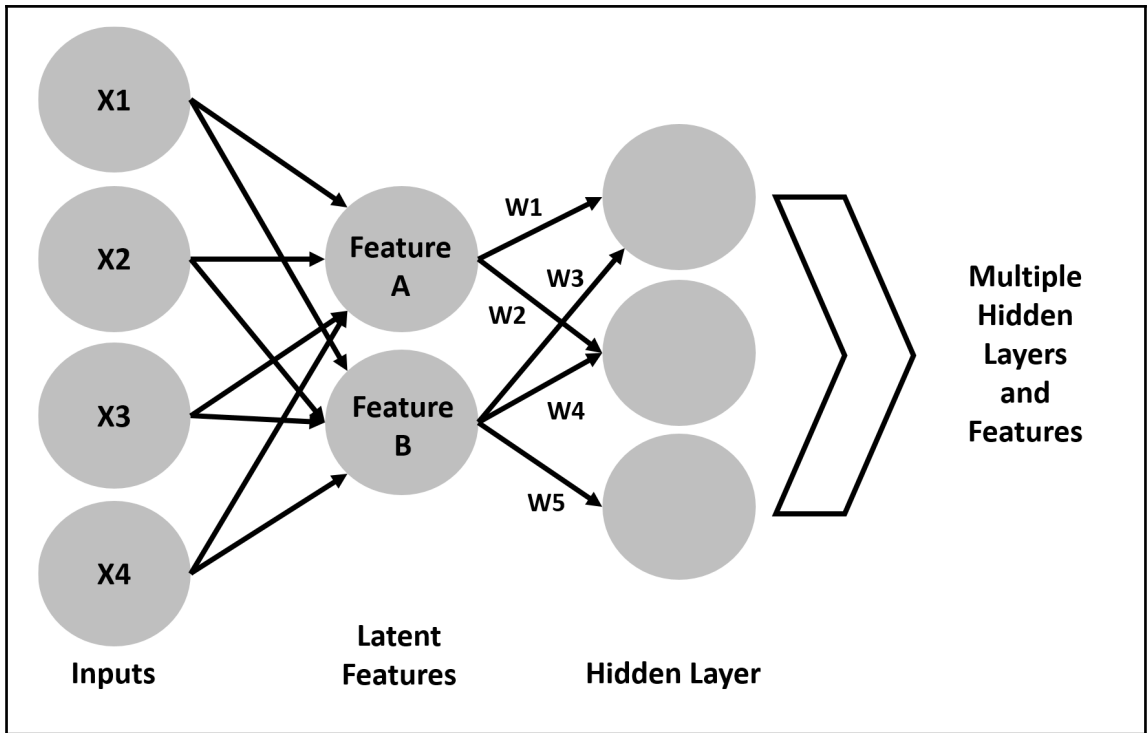


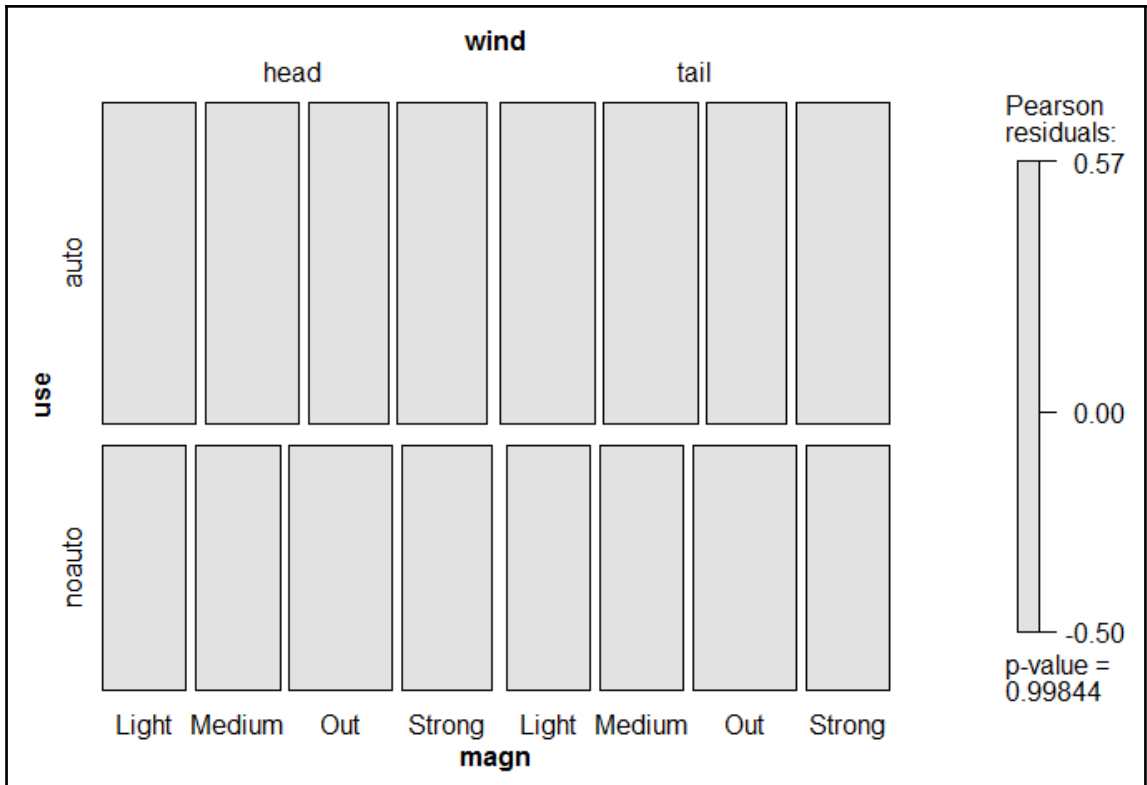


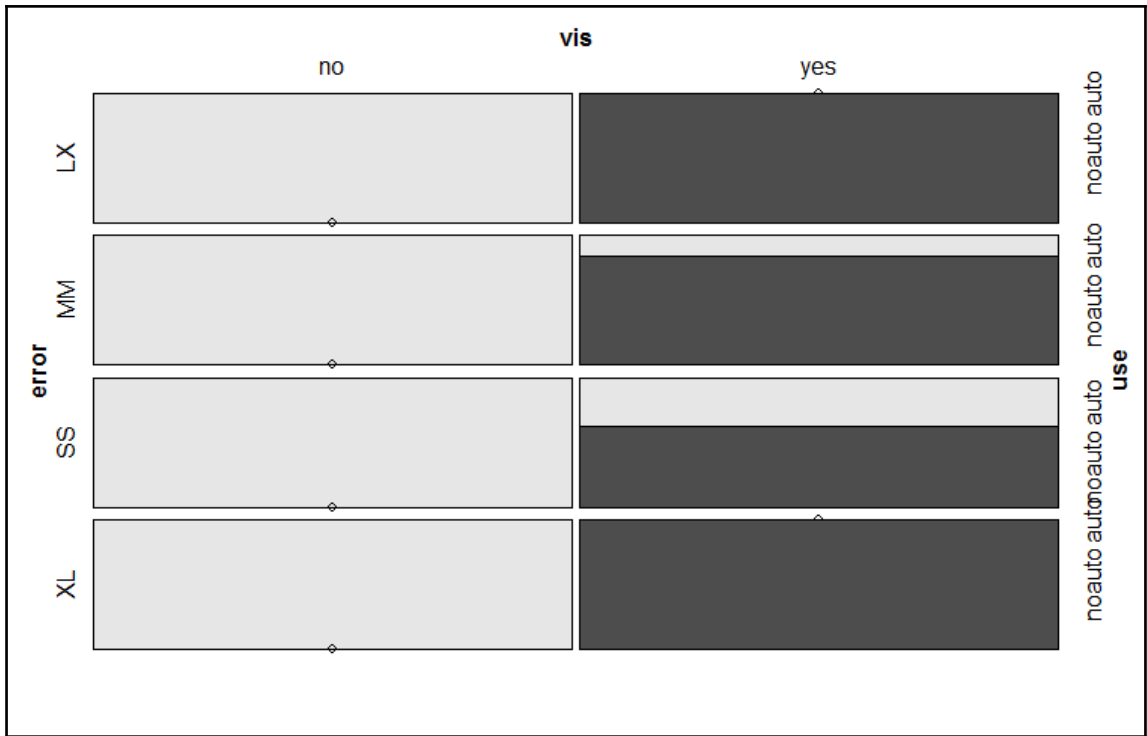
Chapter 7: Neural Networks and Deep Learning

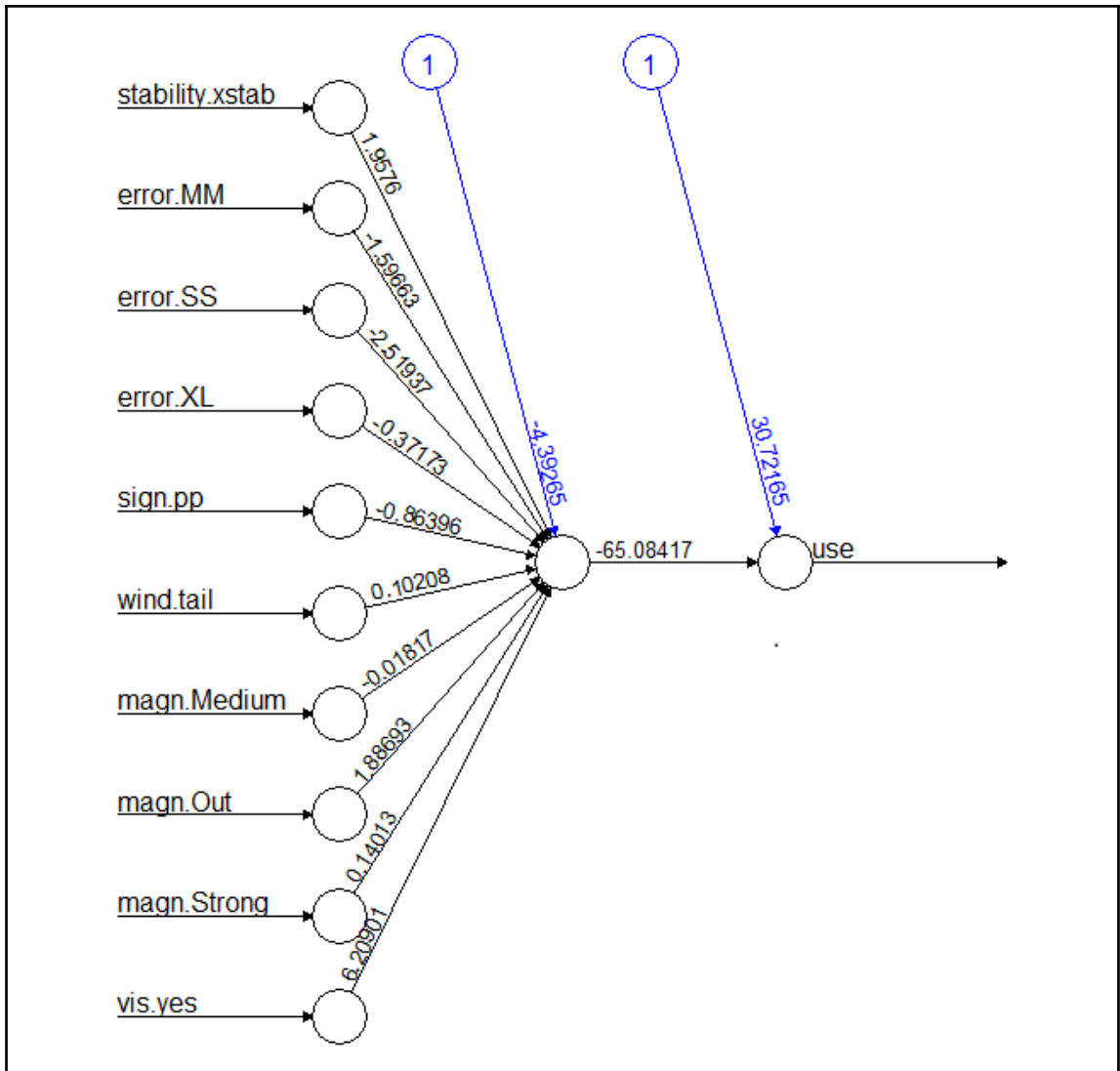


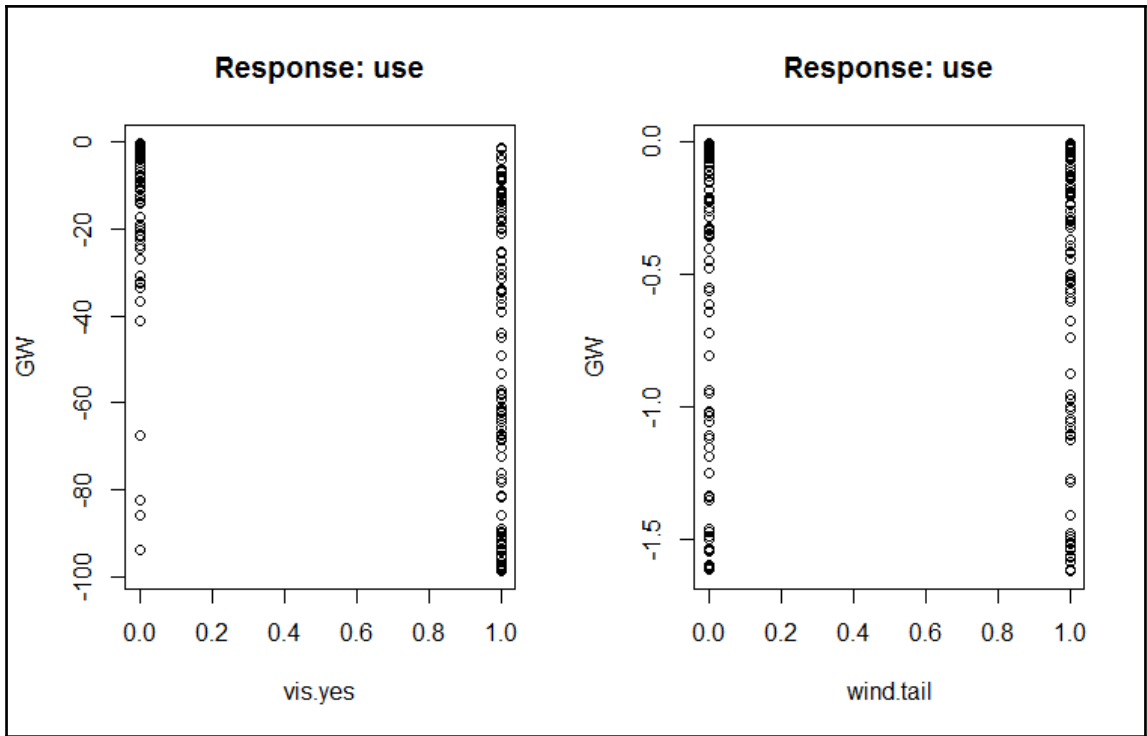




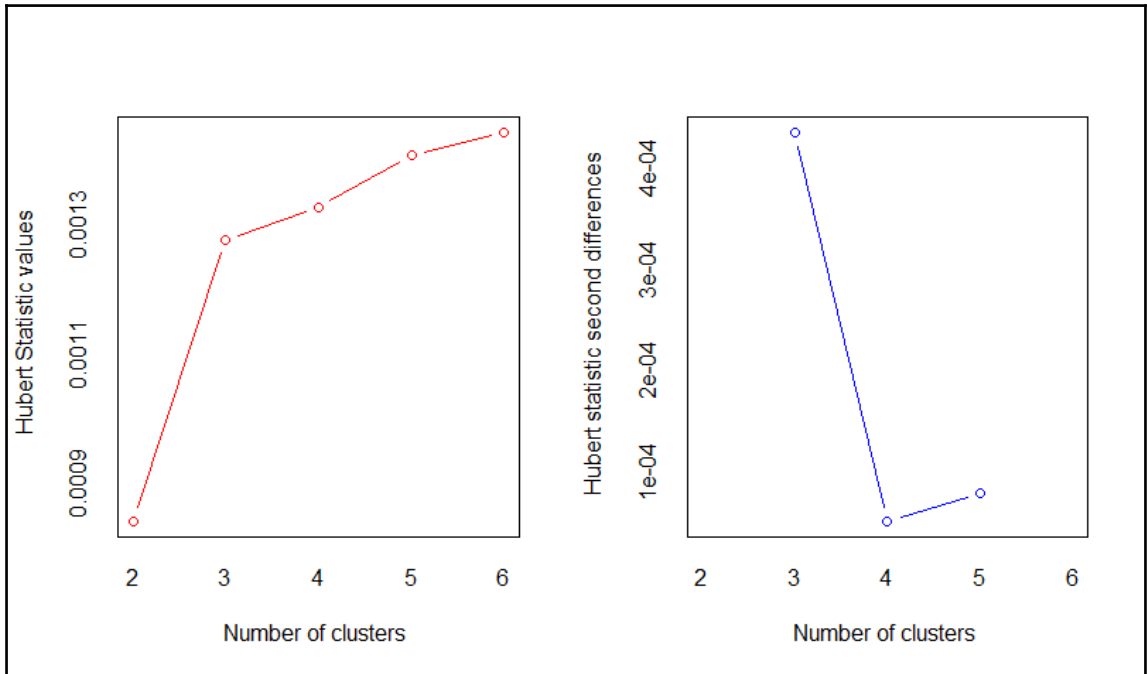


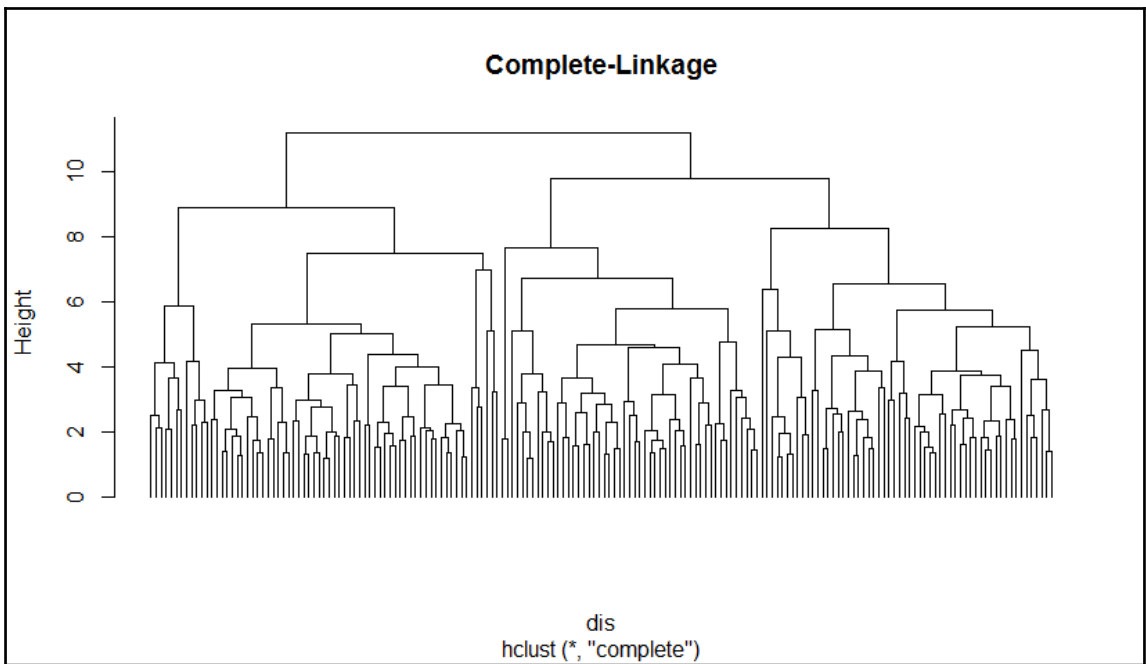
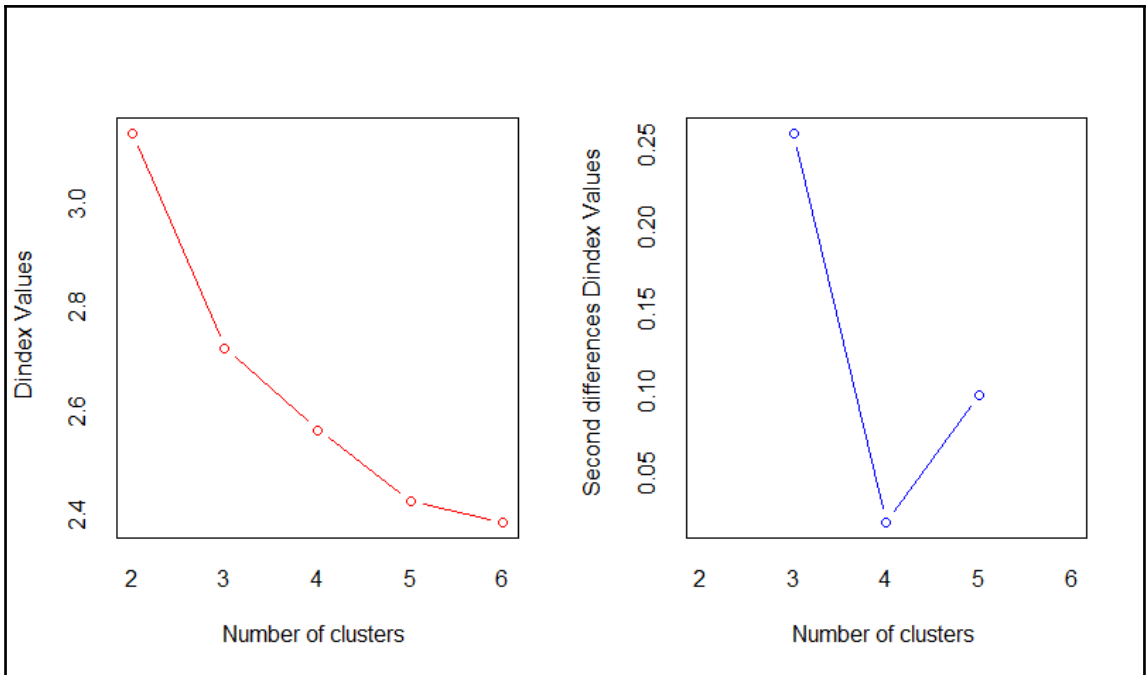


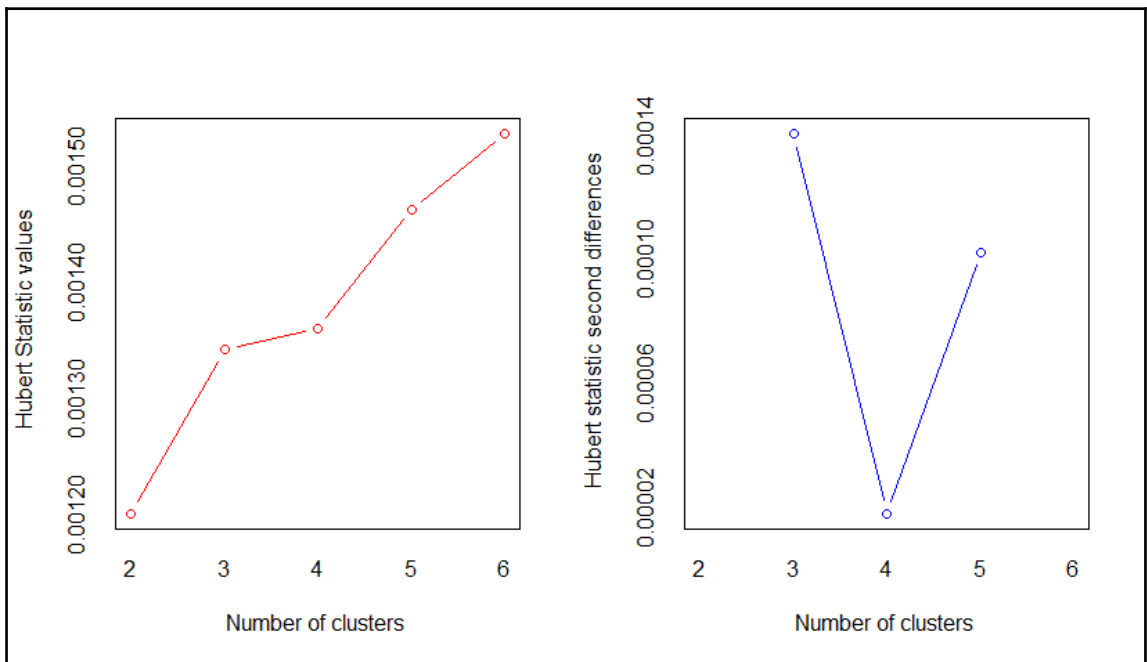
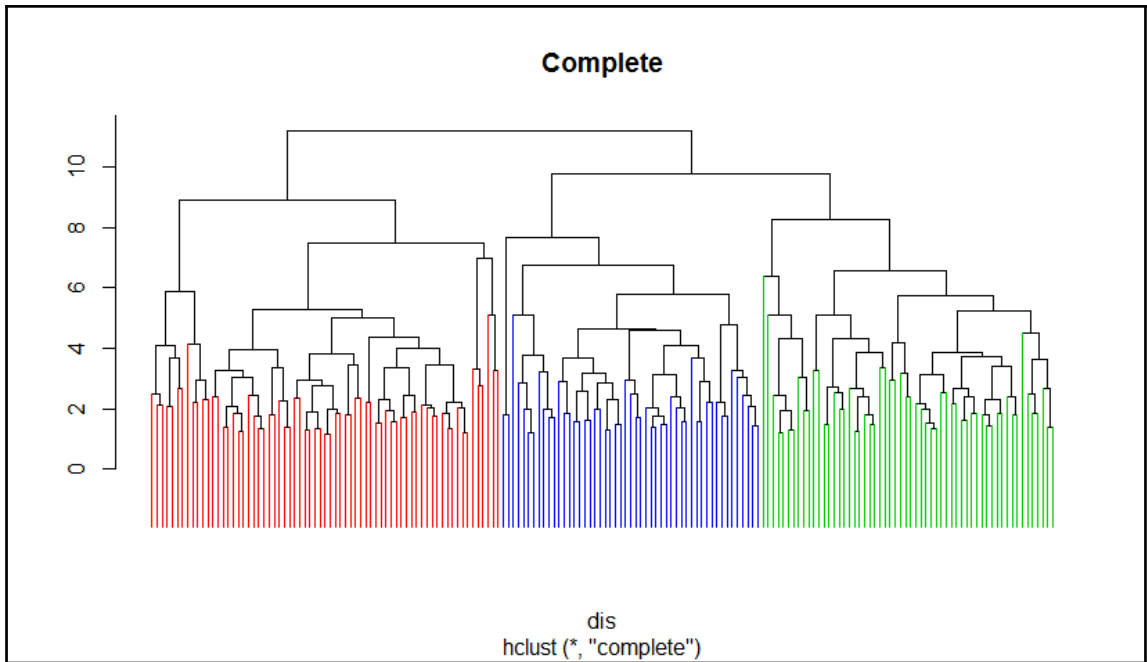


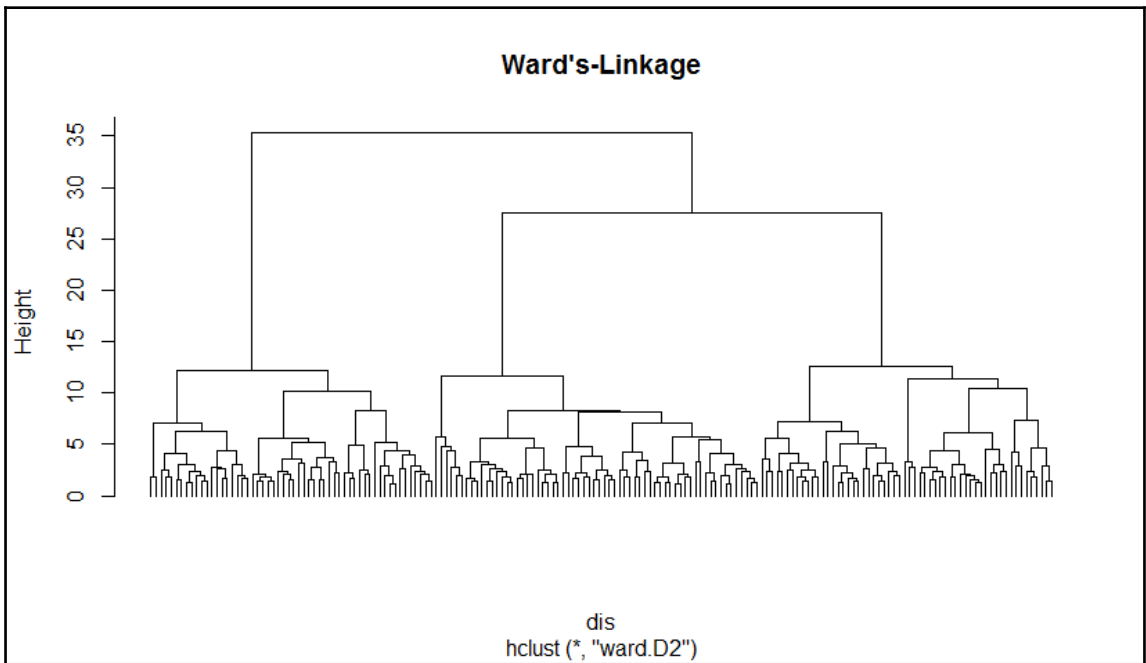
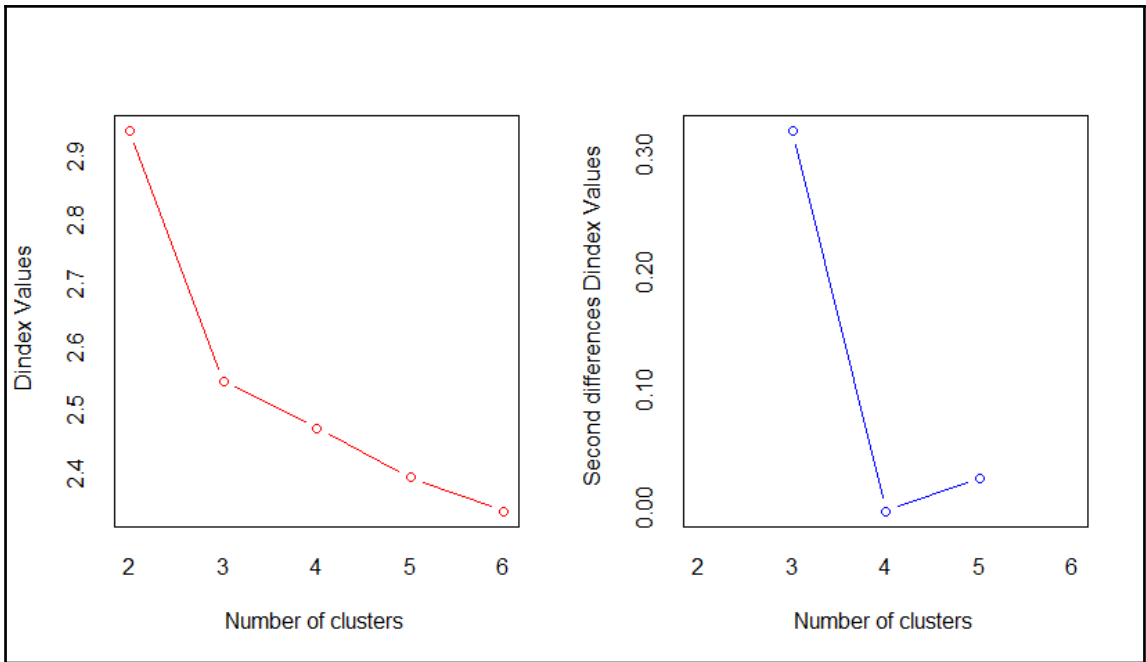


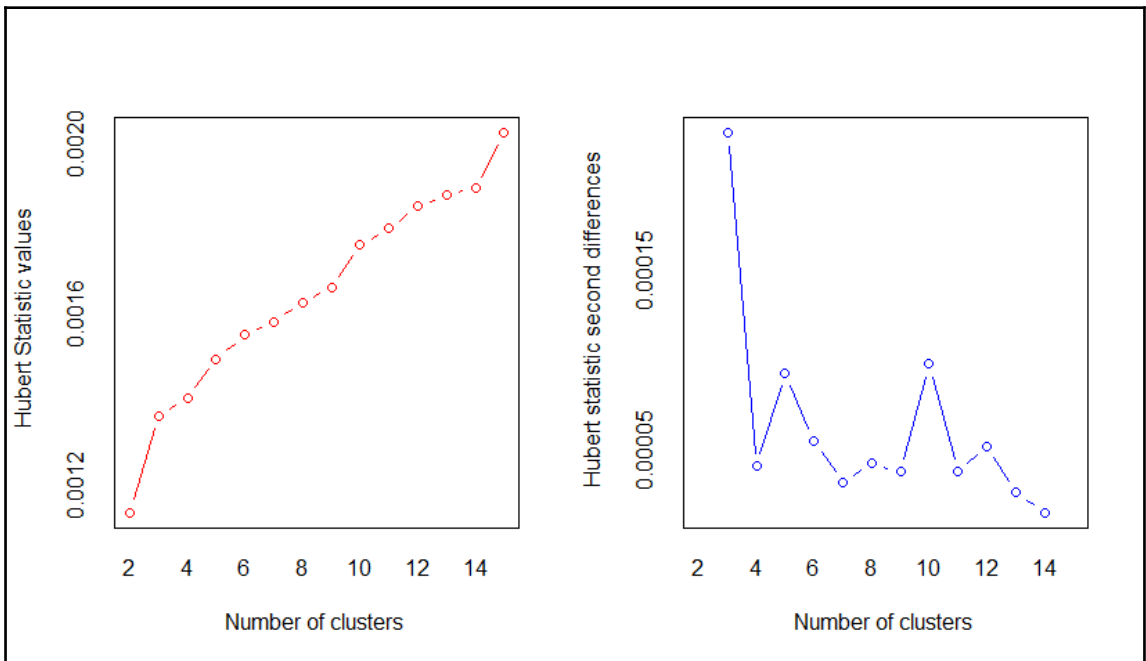
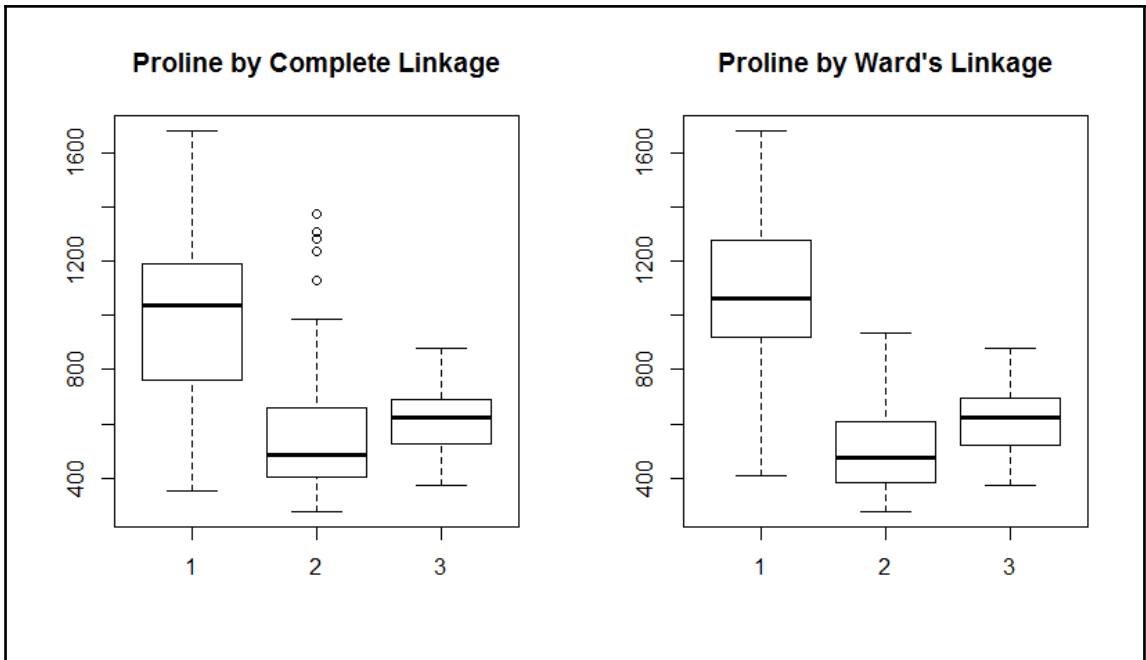
Chapter 8: Cluster Analysis

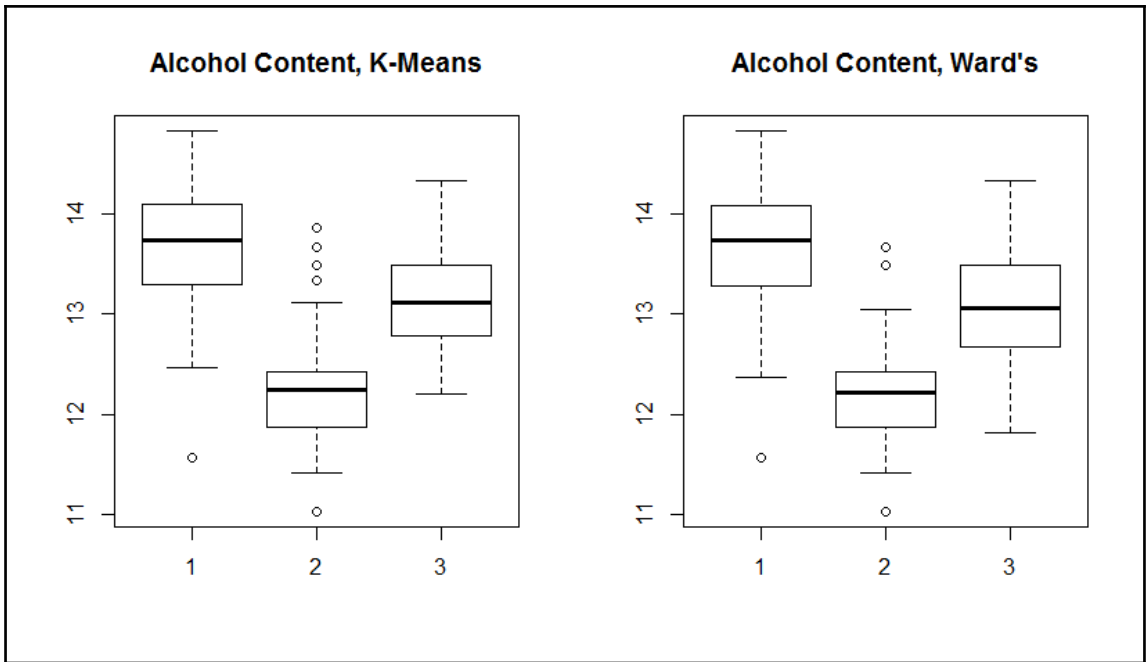




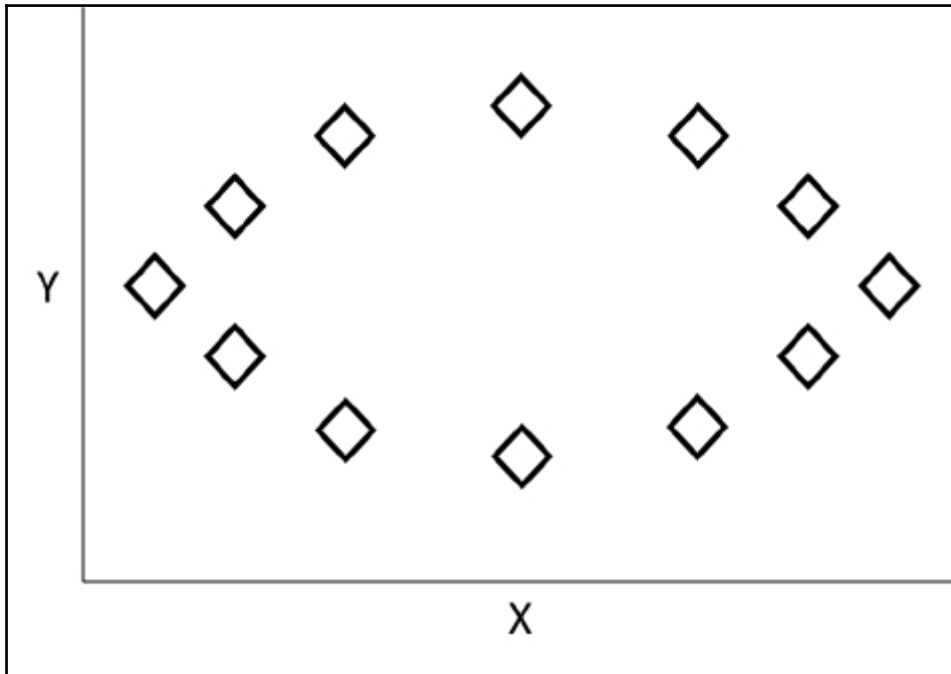


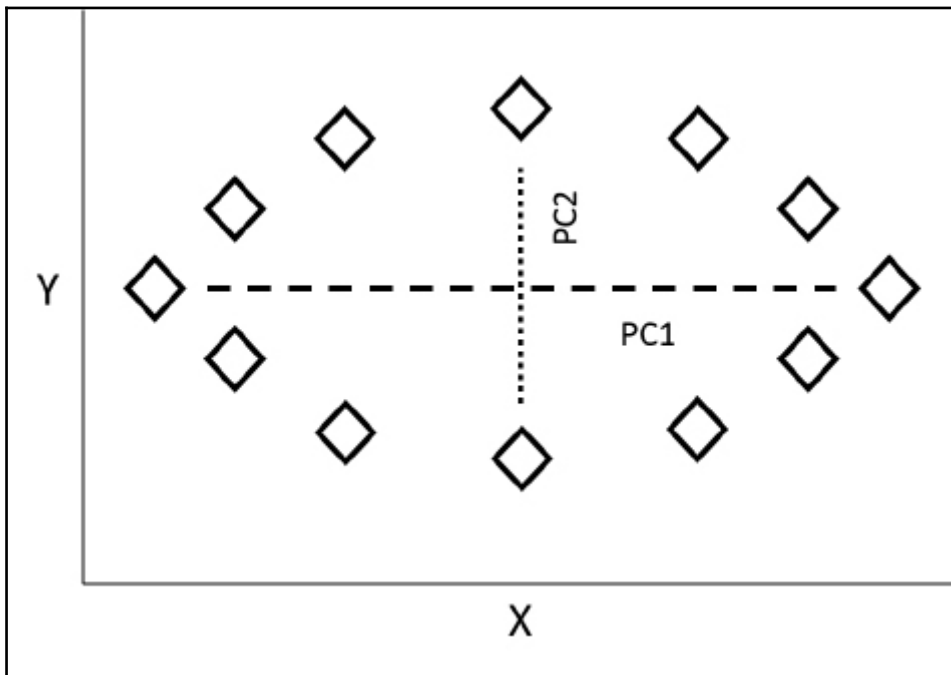
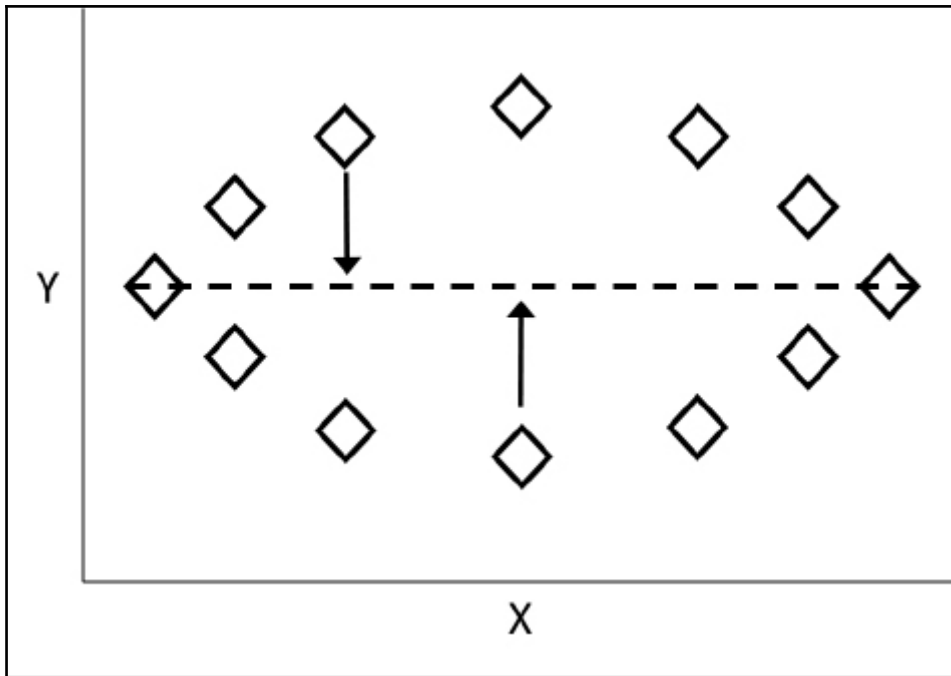


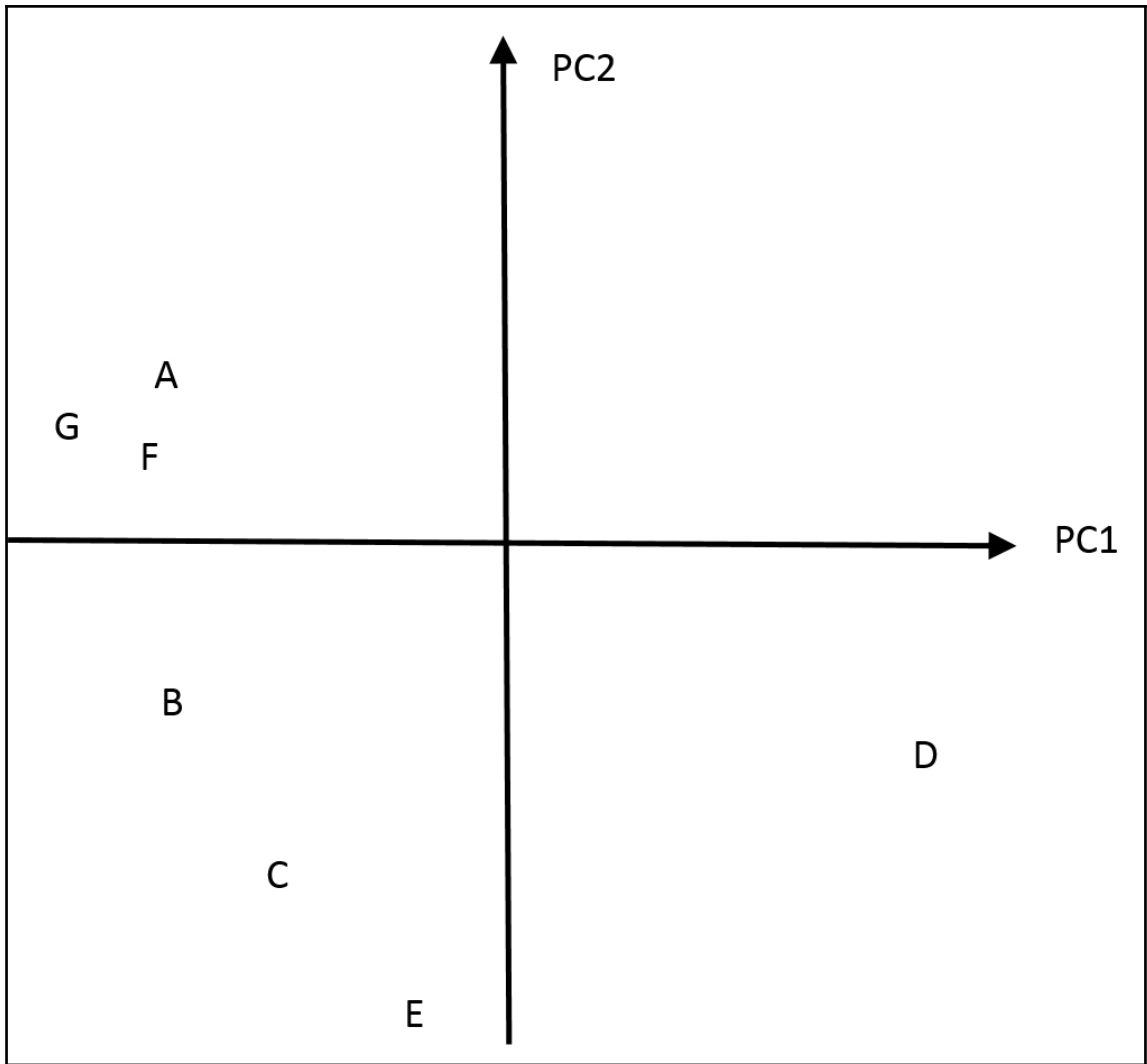


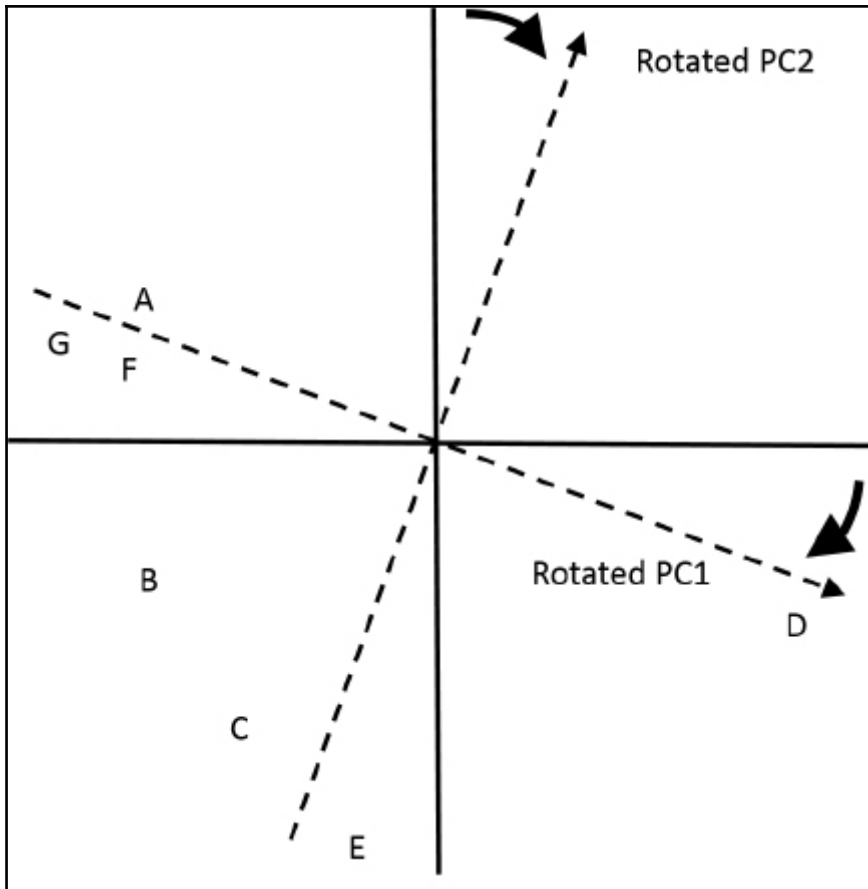


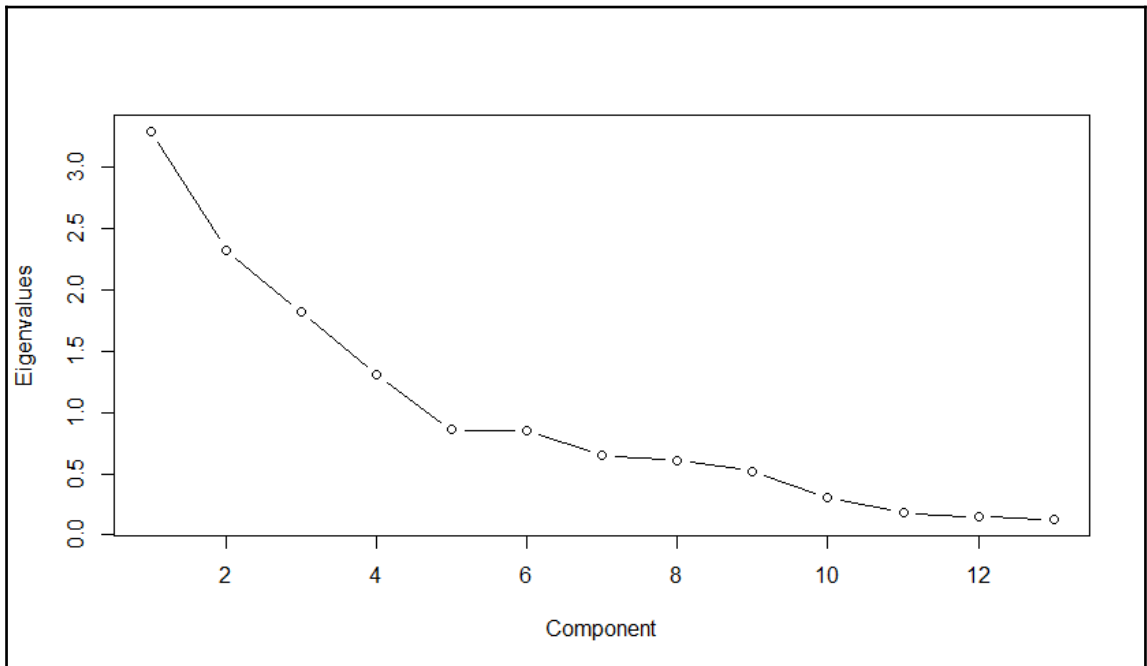
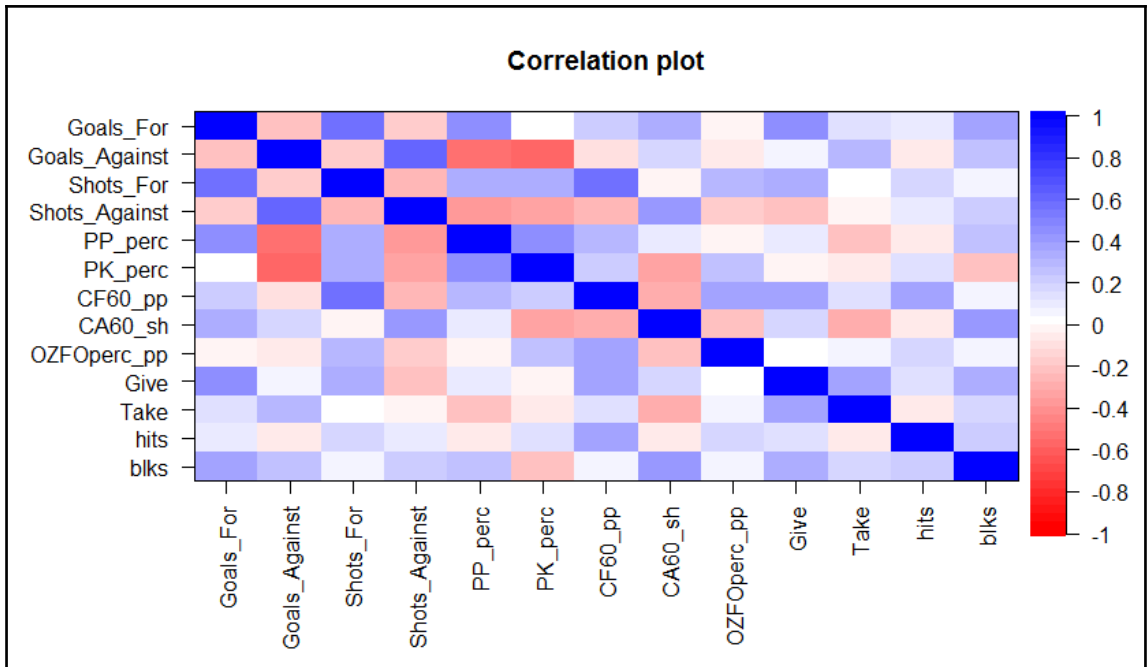
Chapter 9: Principal Components Analysis

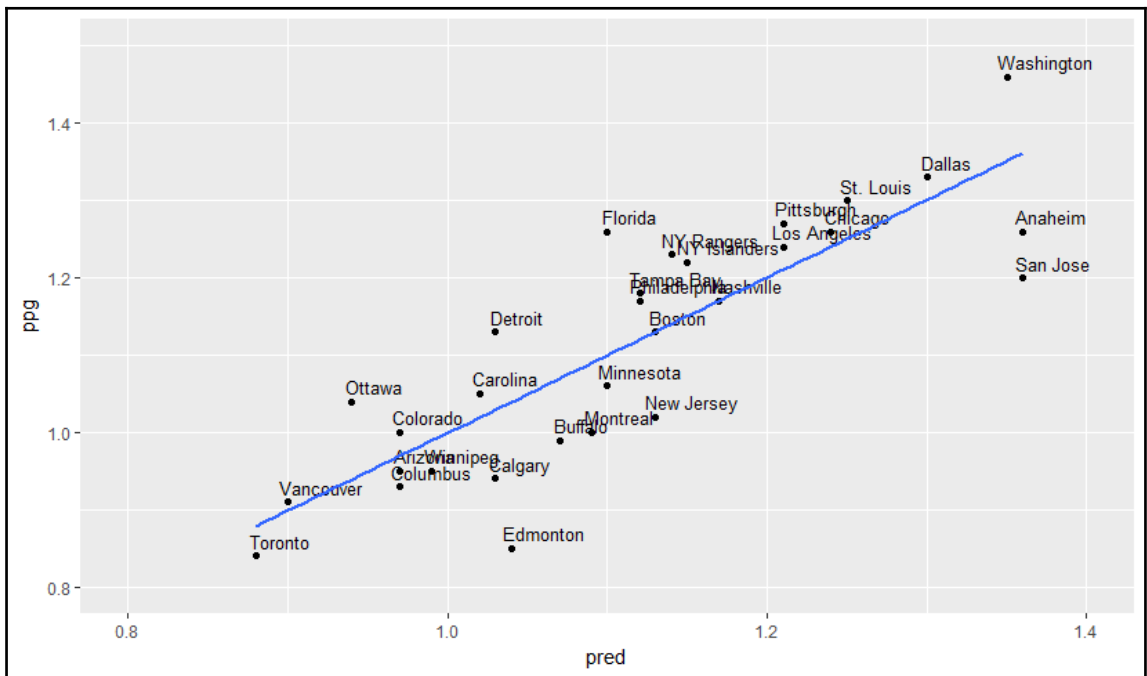
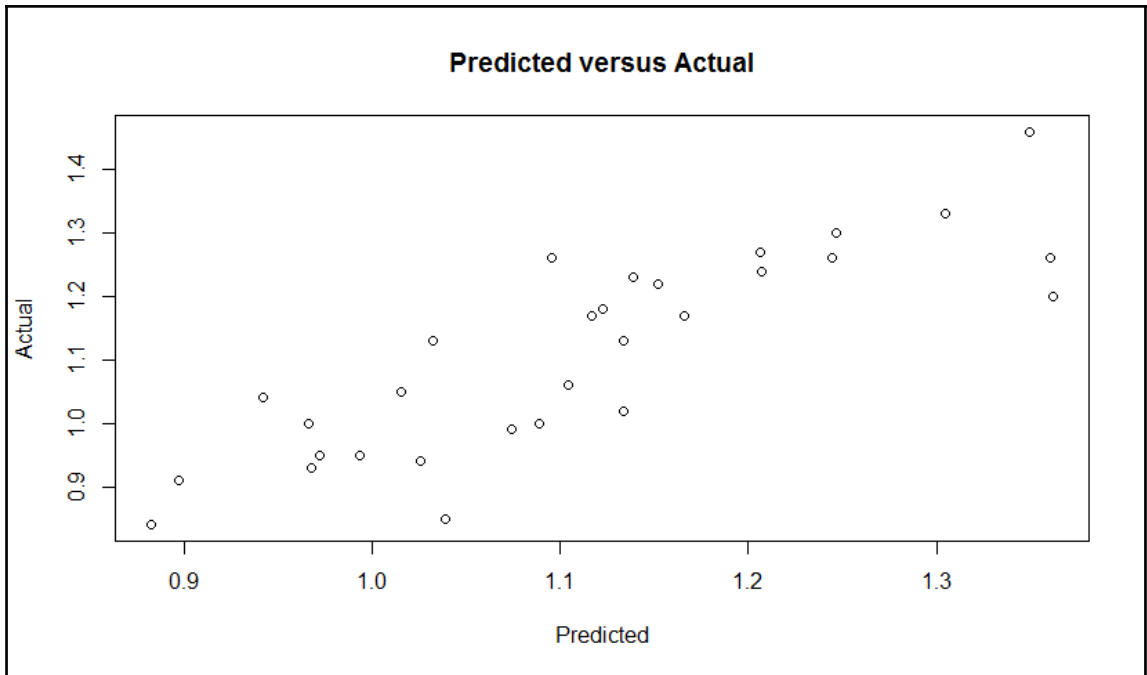


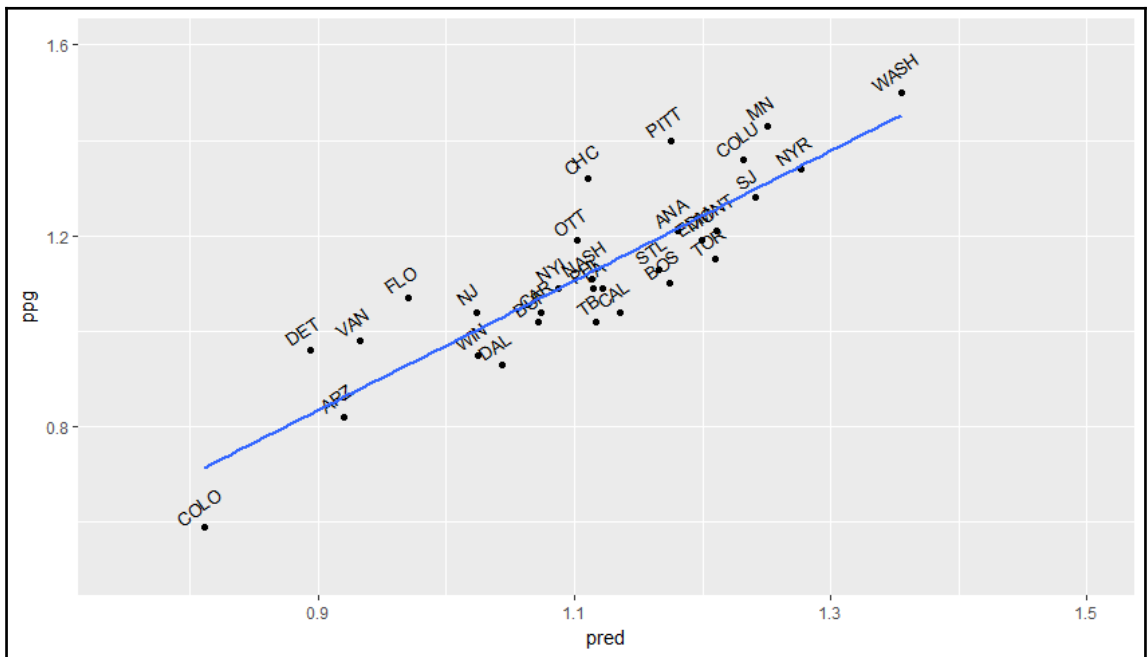
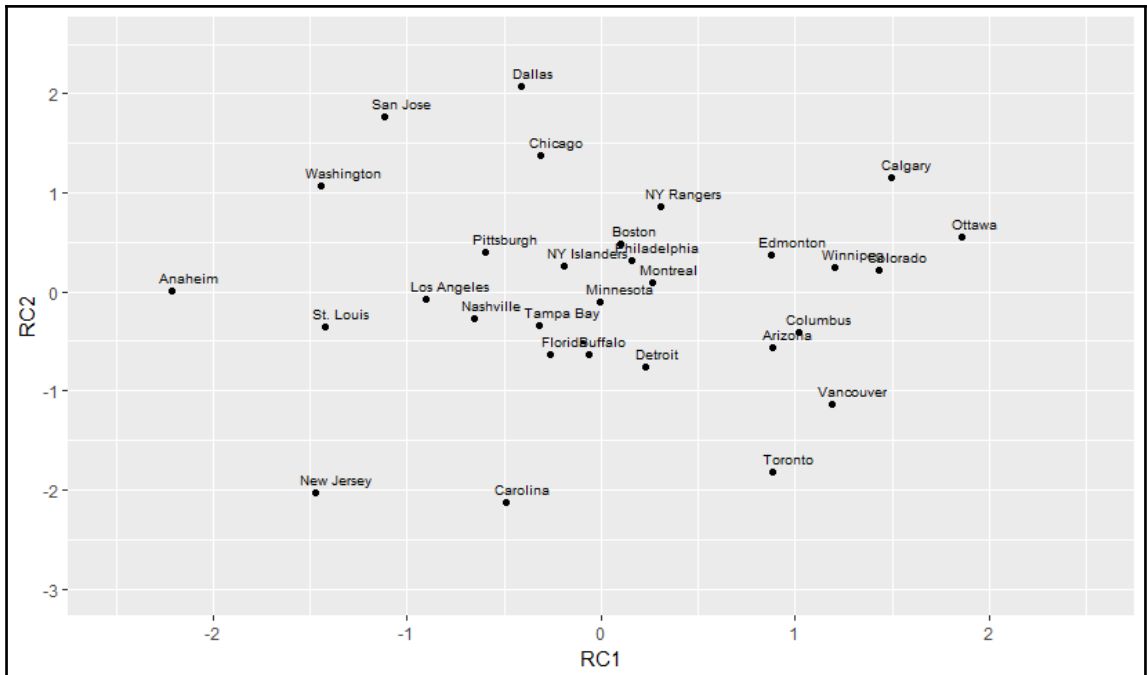




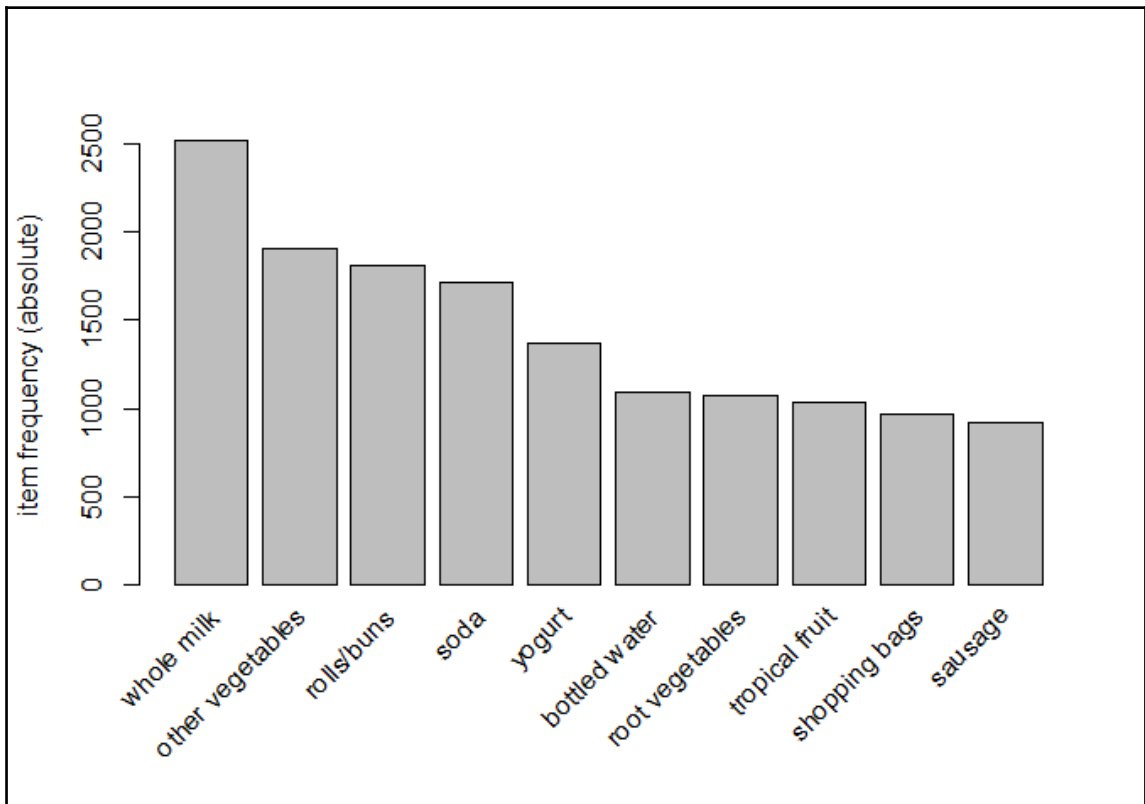


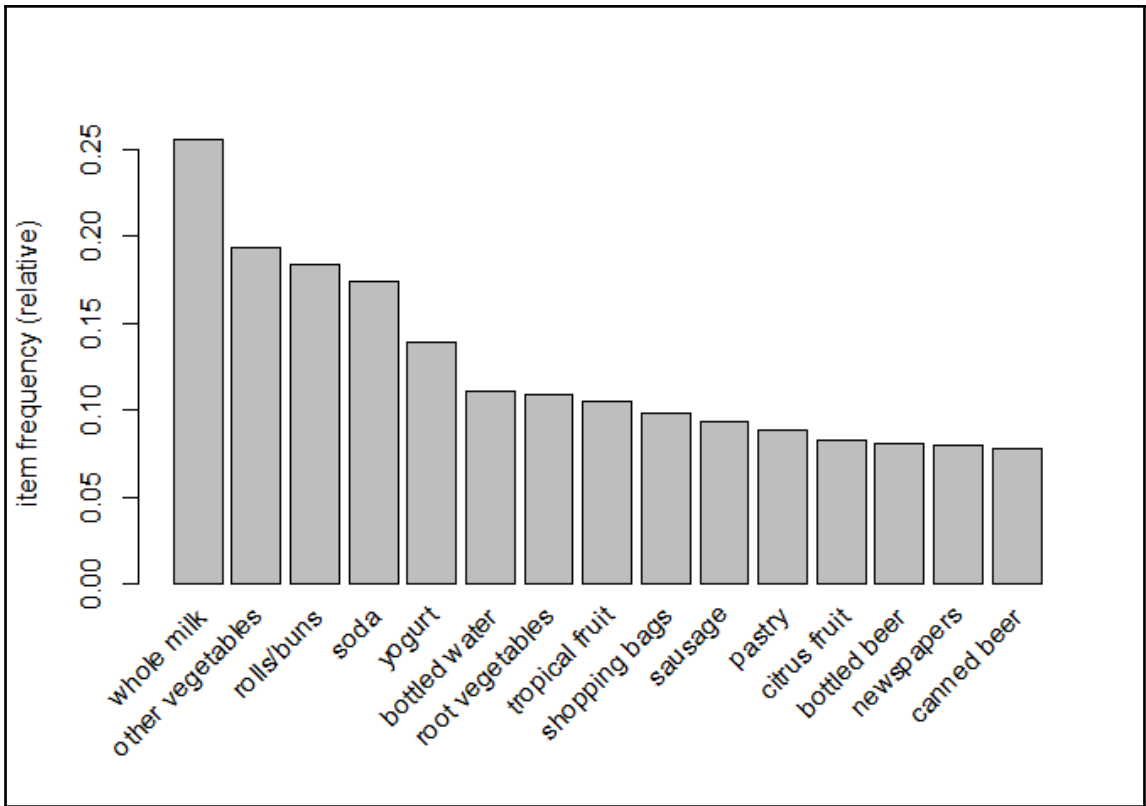


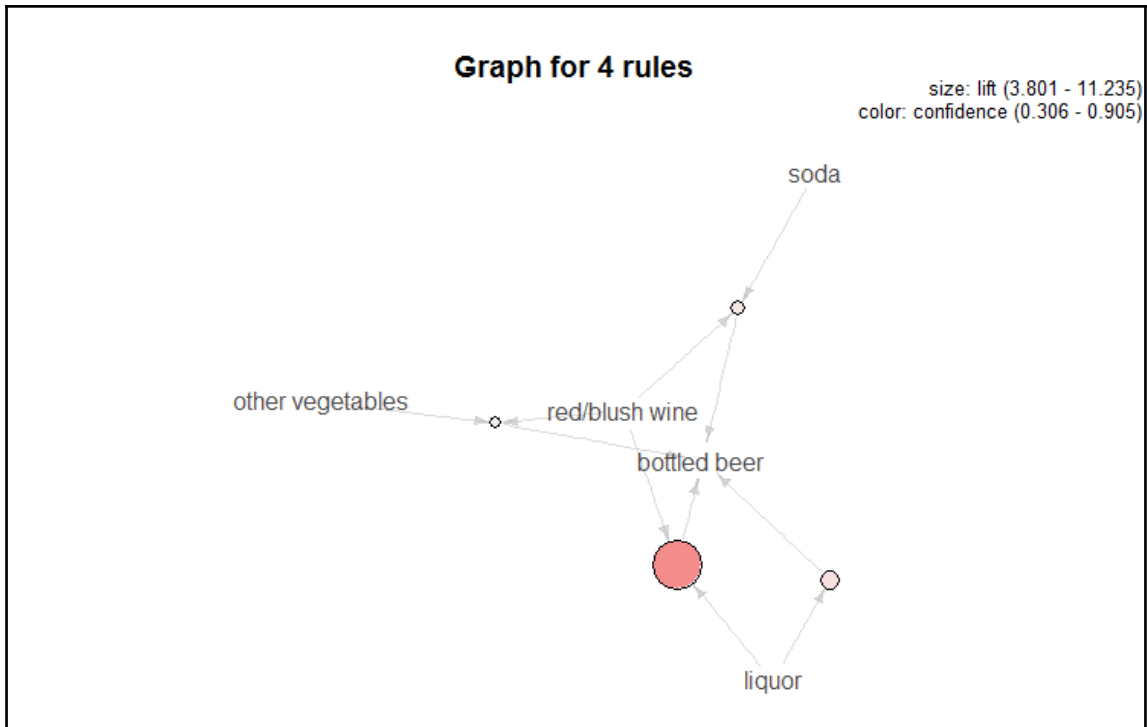




Chapter 10: Market Basket Analysis, Recommendation Engines, and Sequential Analysis

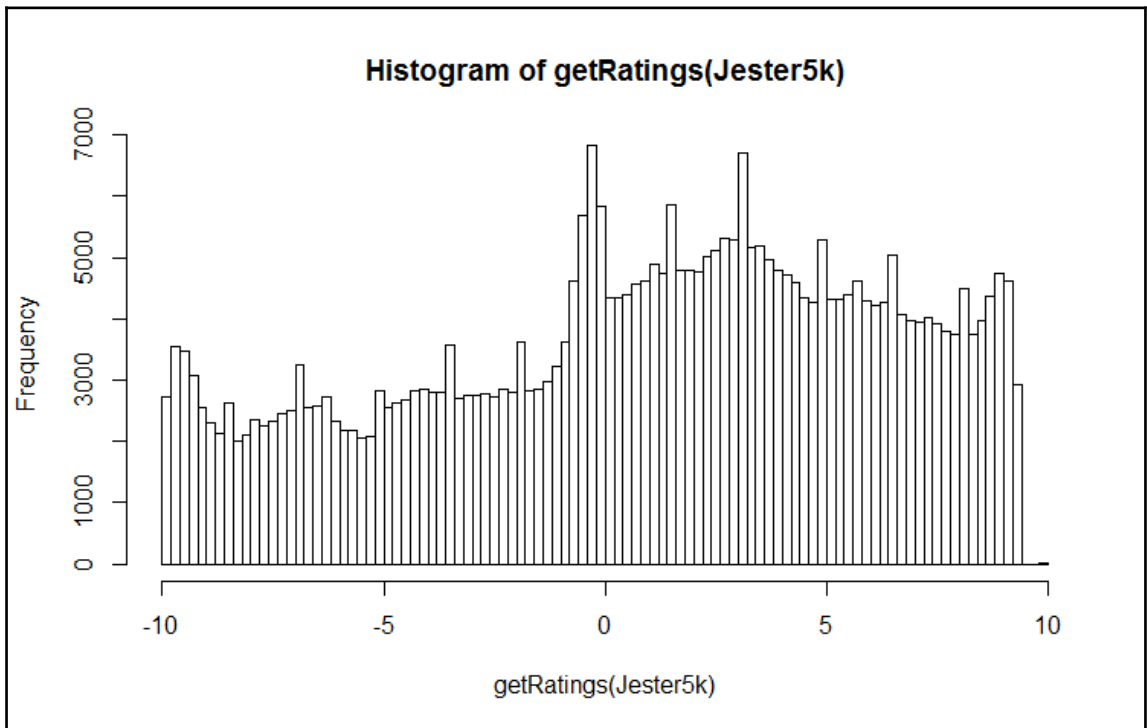


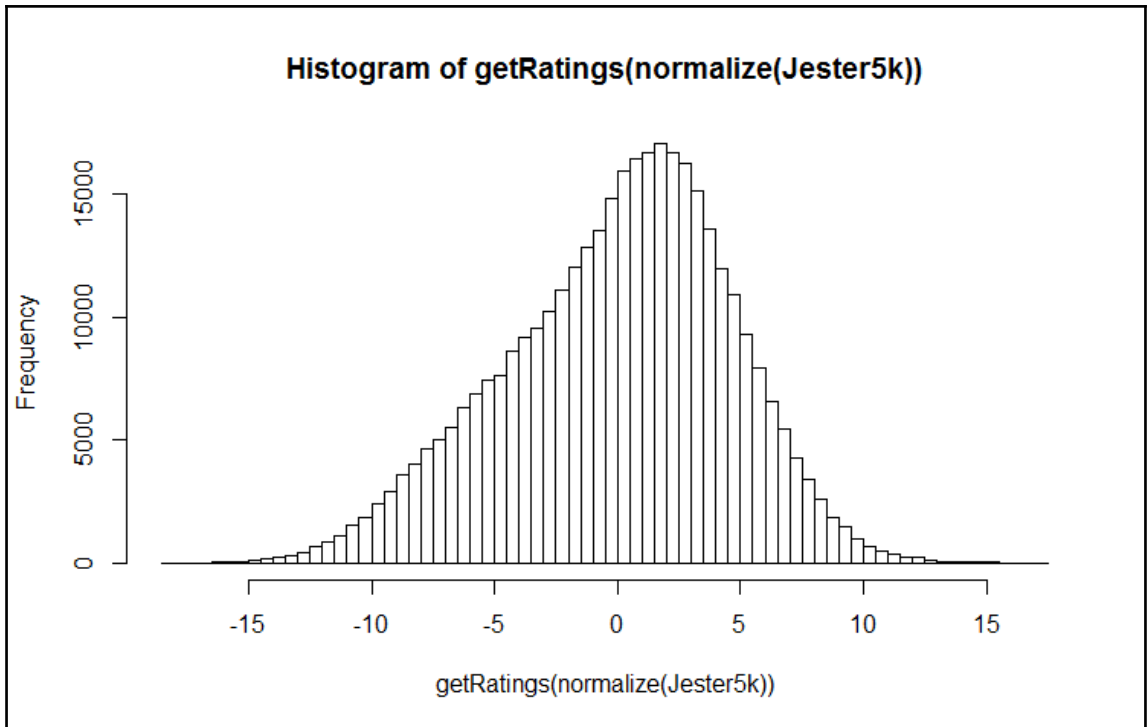


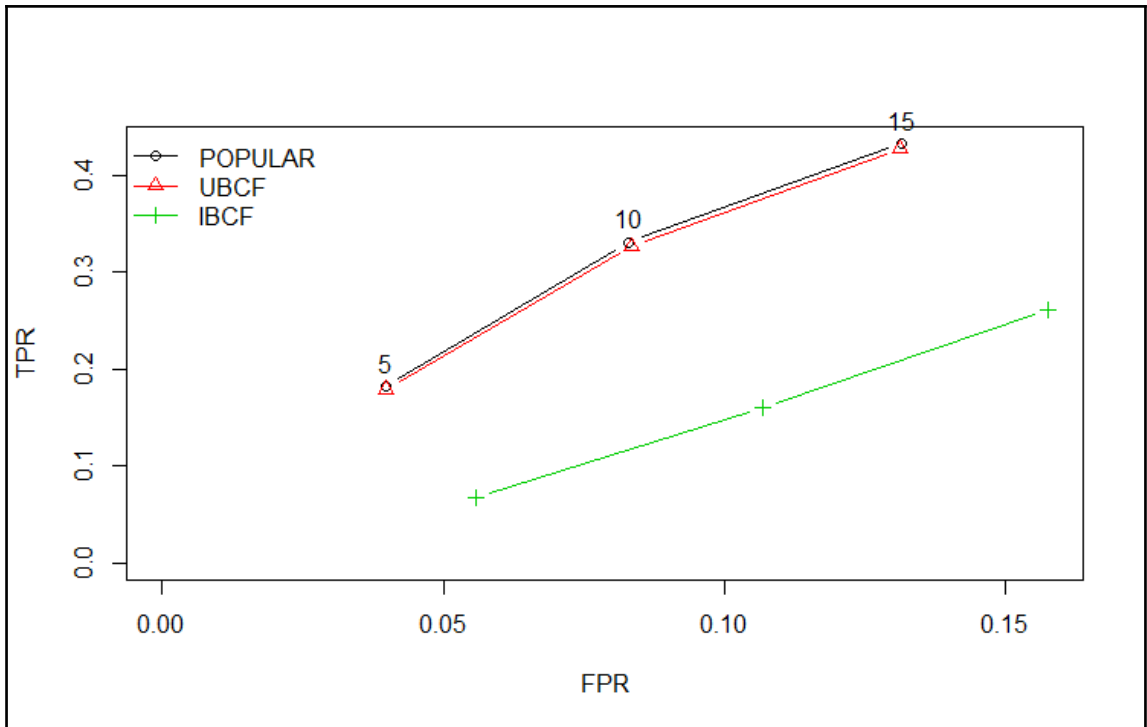


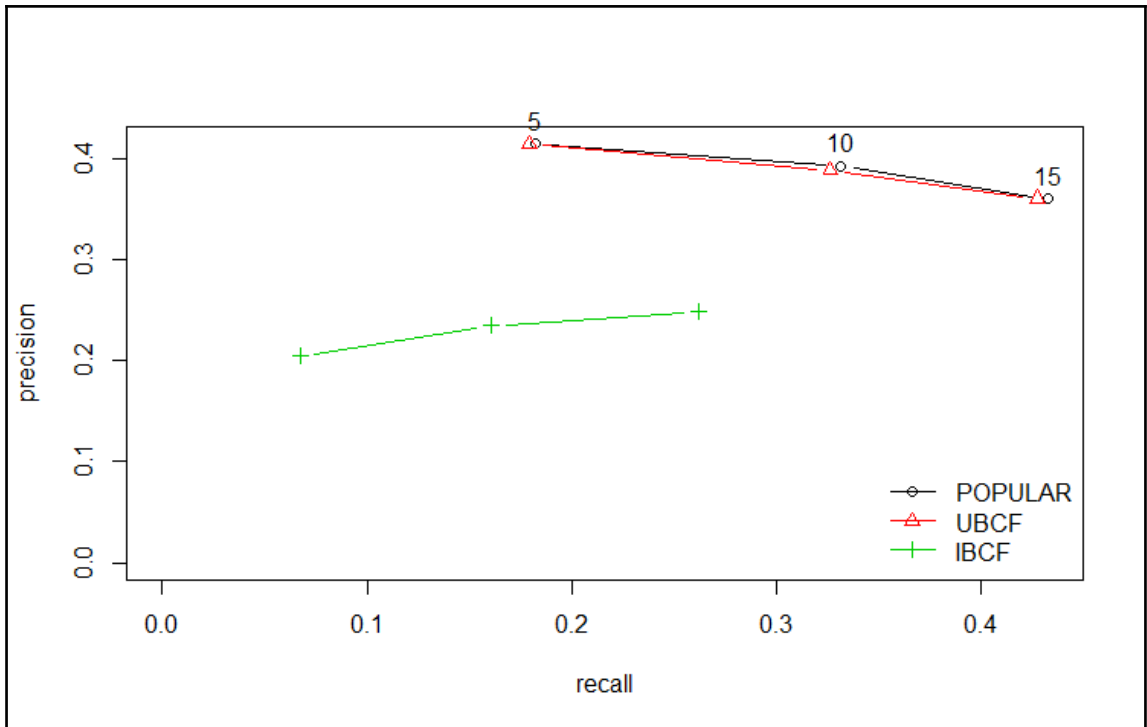
	Avengers	American Sniper	Les Miserable	Mad Max
Homer	3	5	3	4
Marge	5	2	5	3
Bart	5	5	1	4
Lisa	5	1	5	2
Flanders	1	1	4	1
Me	1	5	2	?

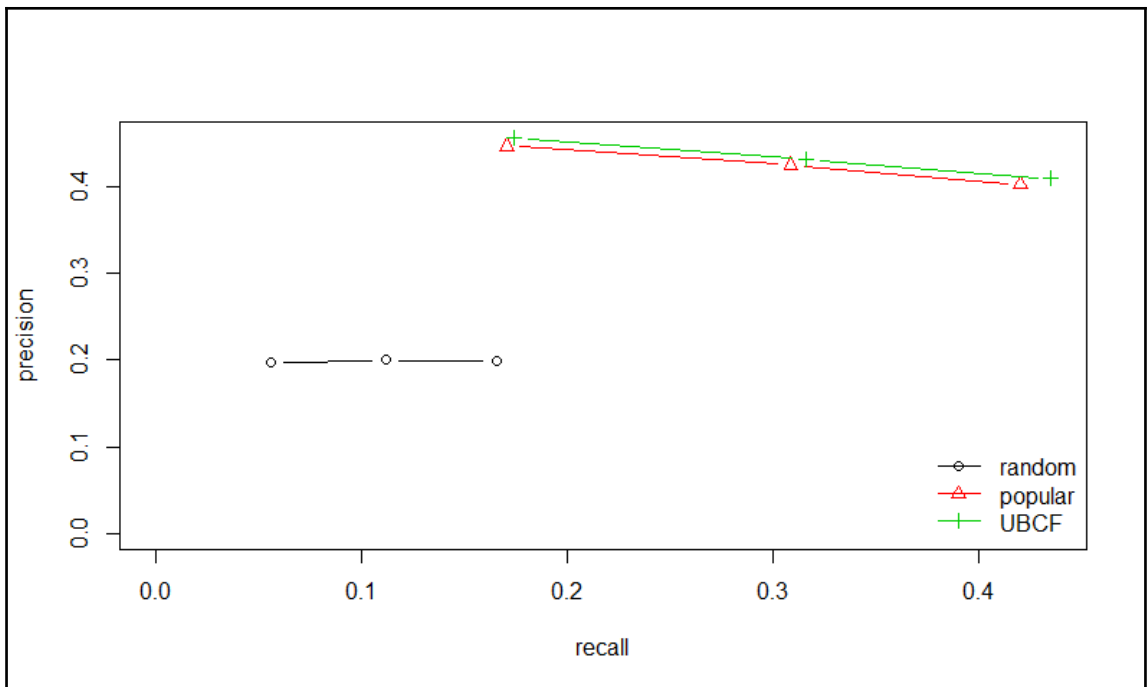
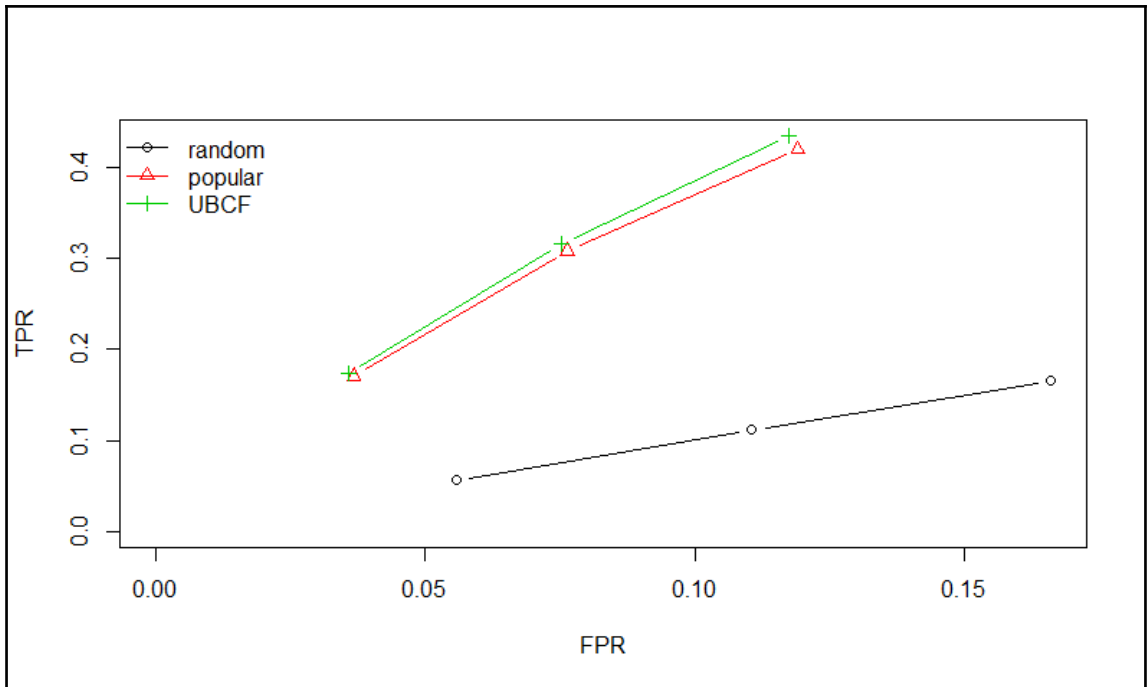
	Avengers	American Sniper	Les Miserable	Mad Max
Homer	3	5	3	4
Marge	5	2	5	3
Bart	5	5	1	4
Lisa	5	1	5	2
Flanders	1	1	4	1
Me	1	5	2	?

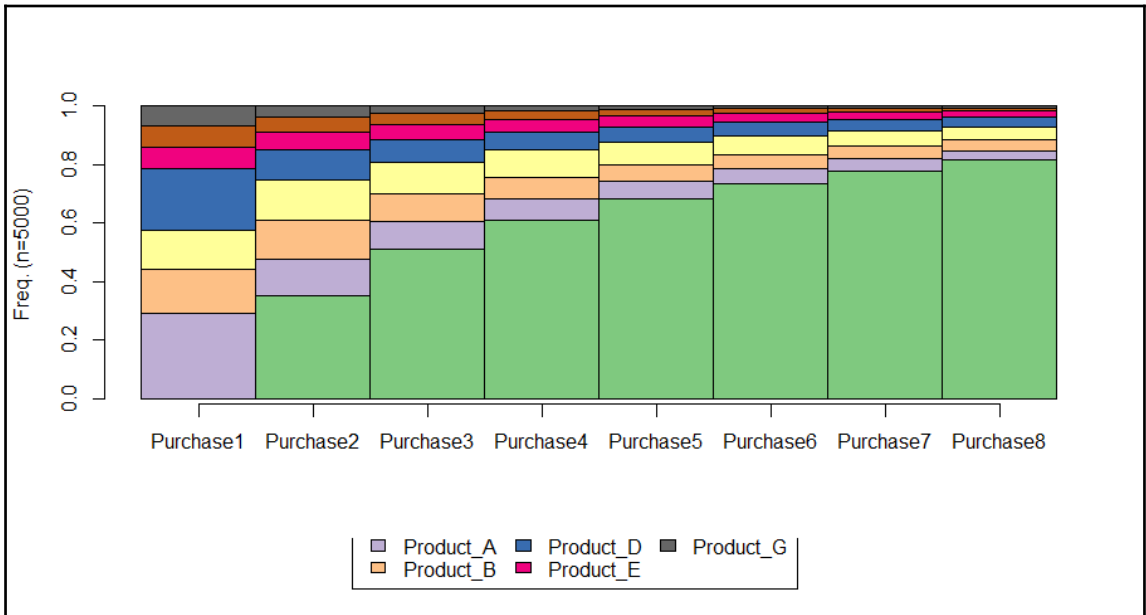
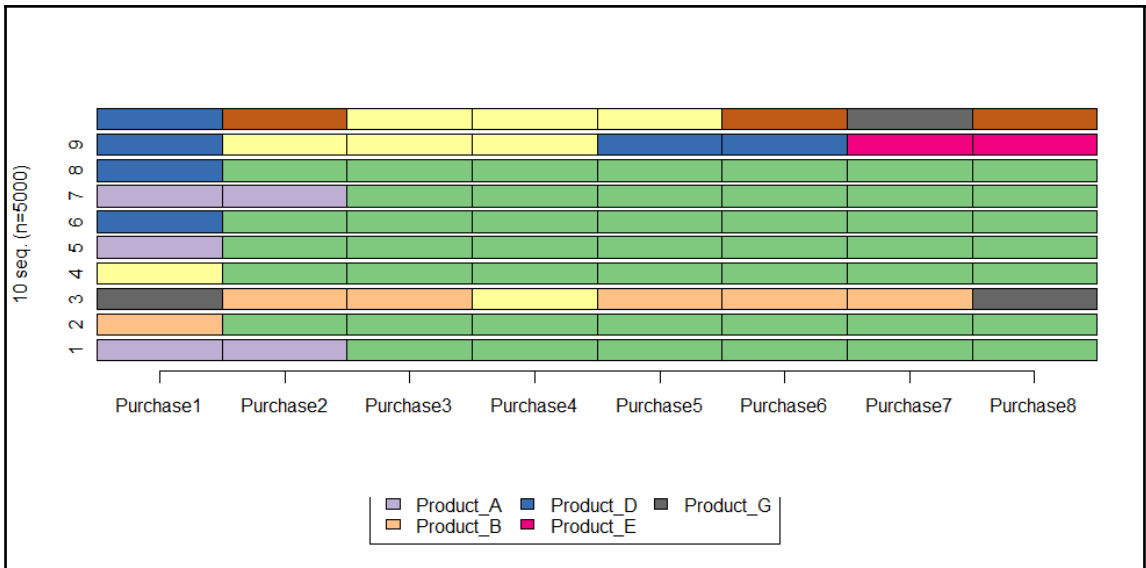


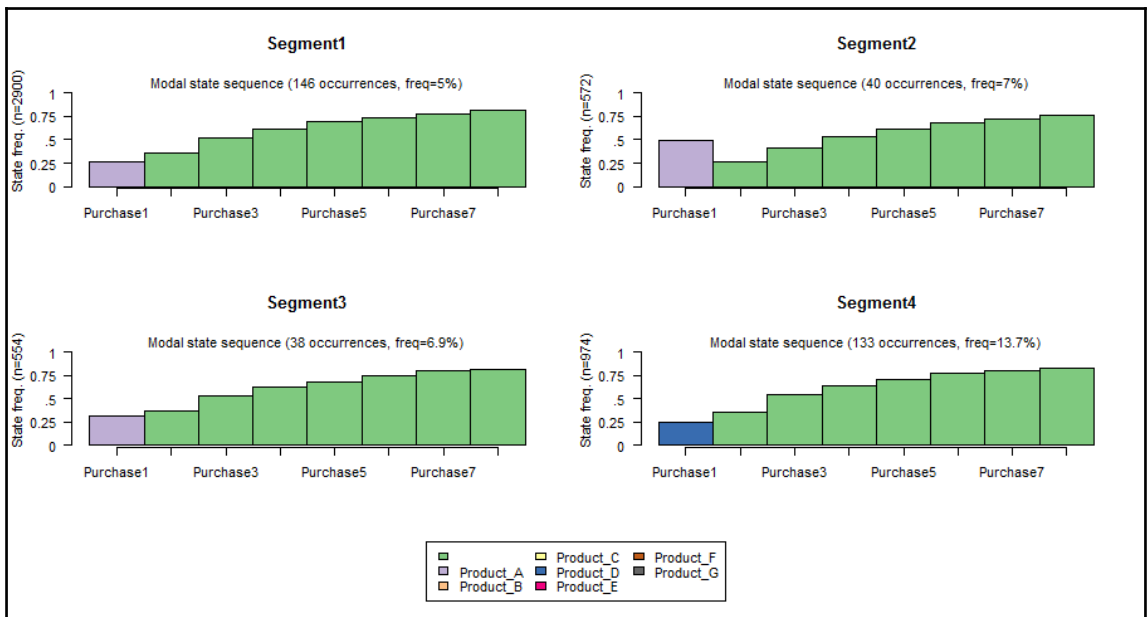
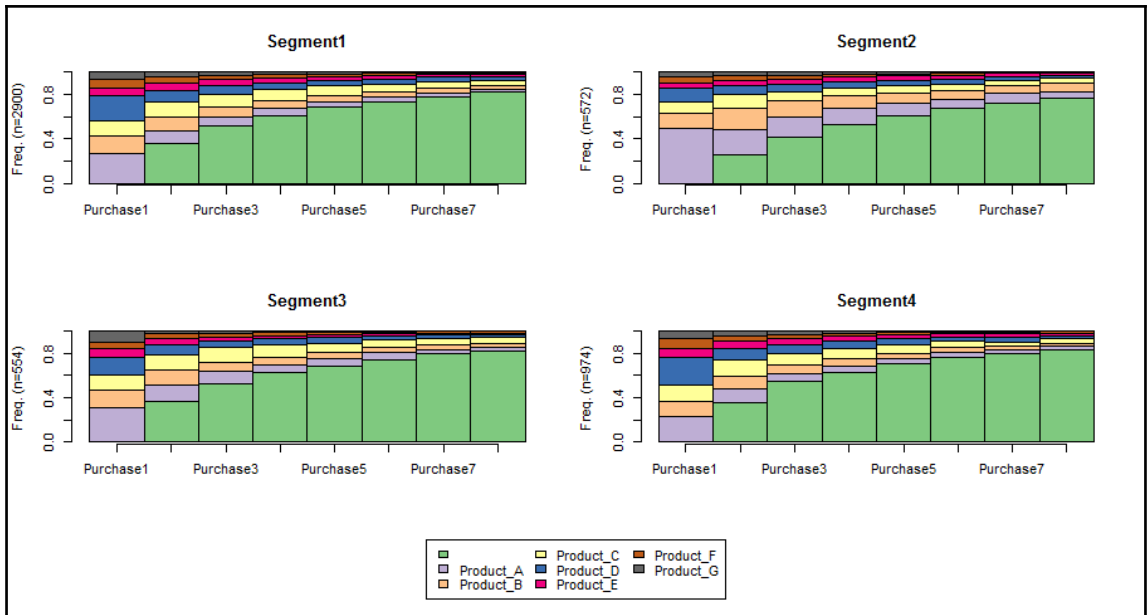


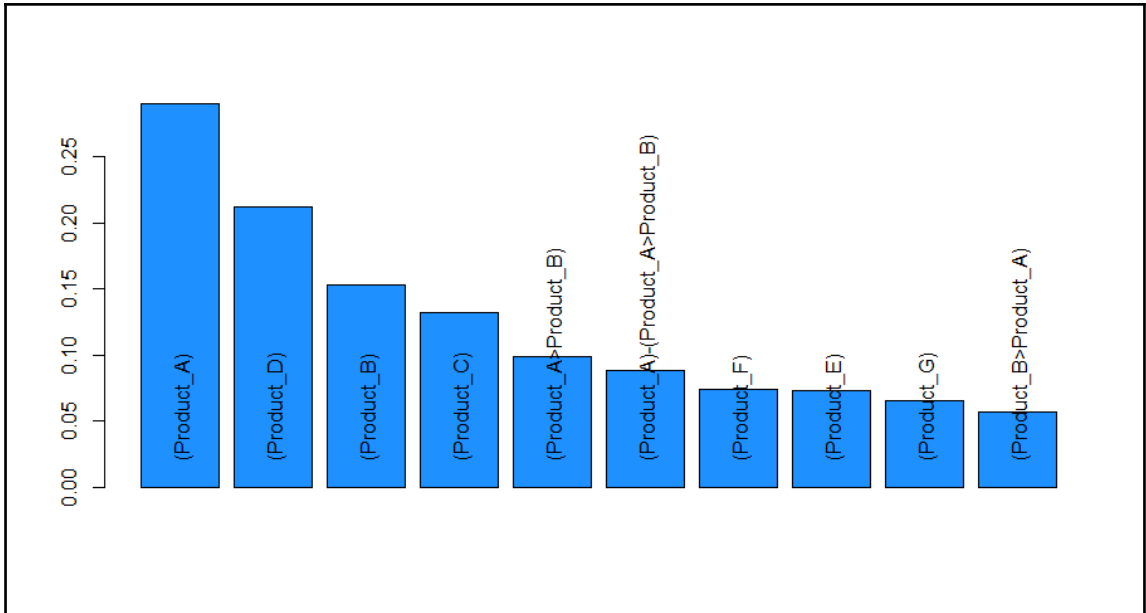




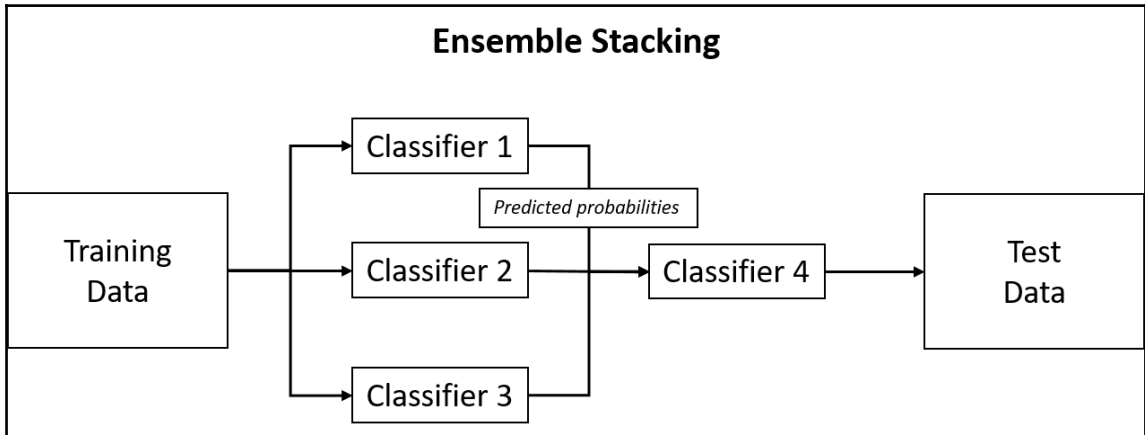


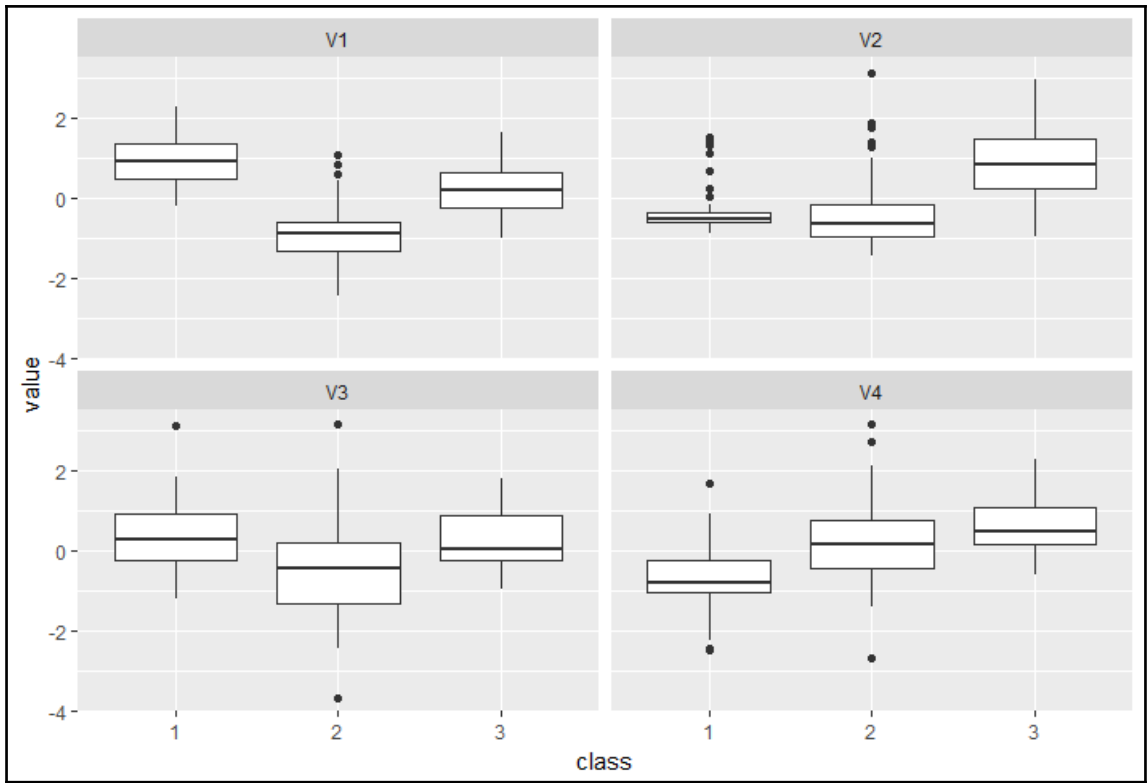


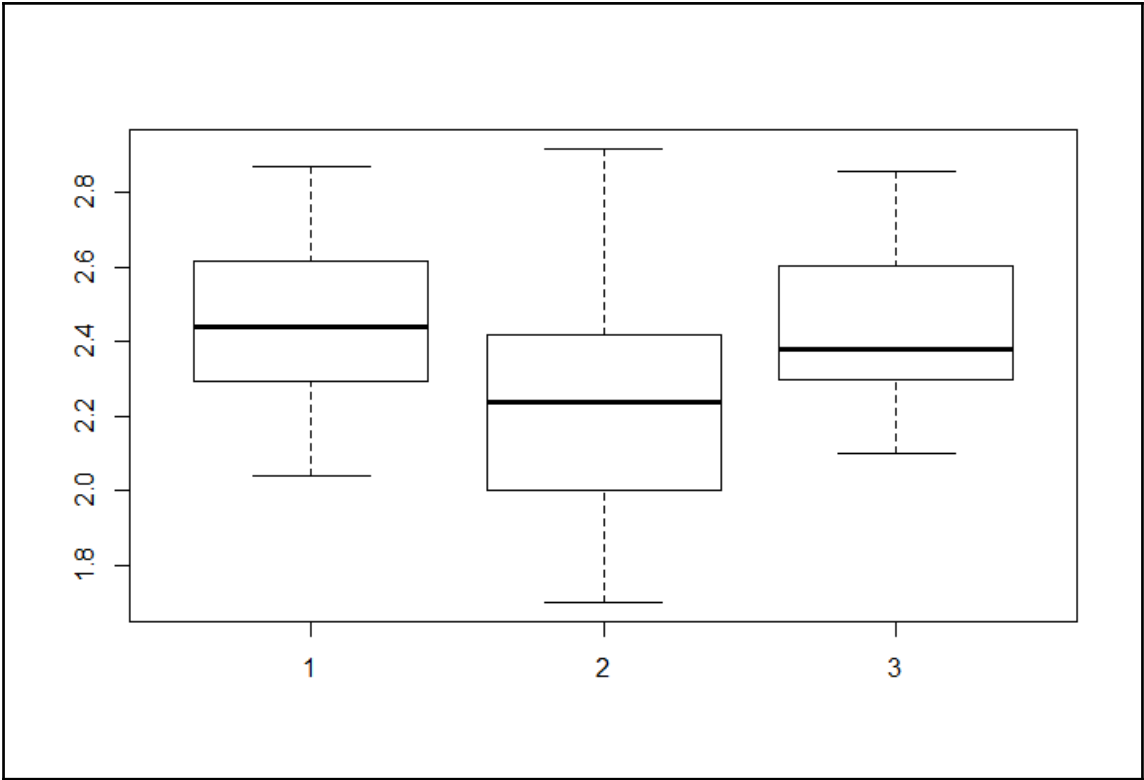


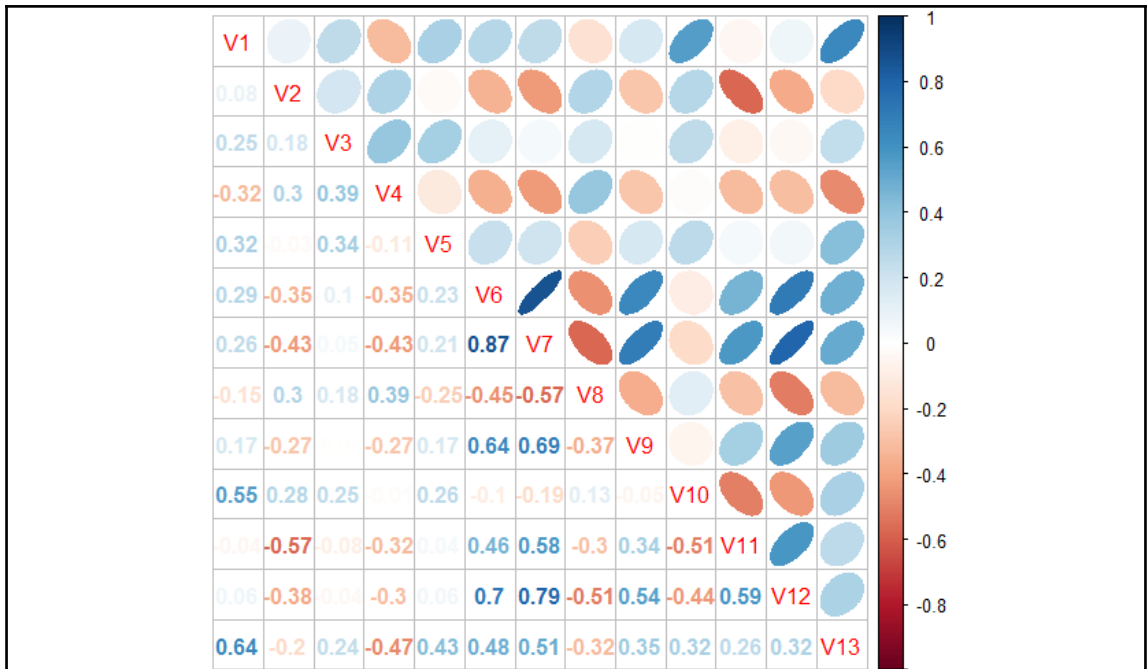


Chapter 11: Creating Ensembles and Multiclass Classification

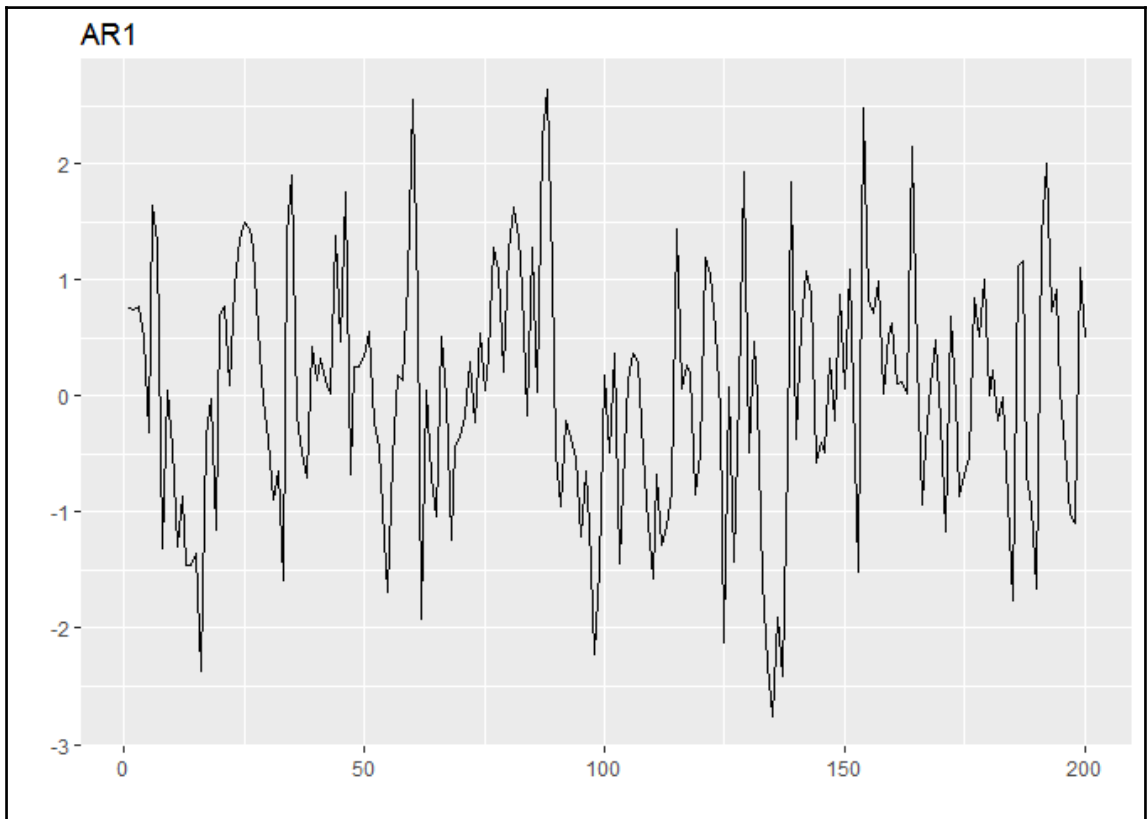


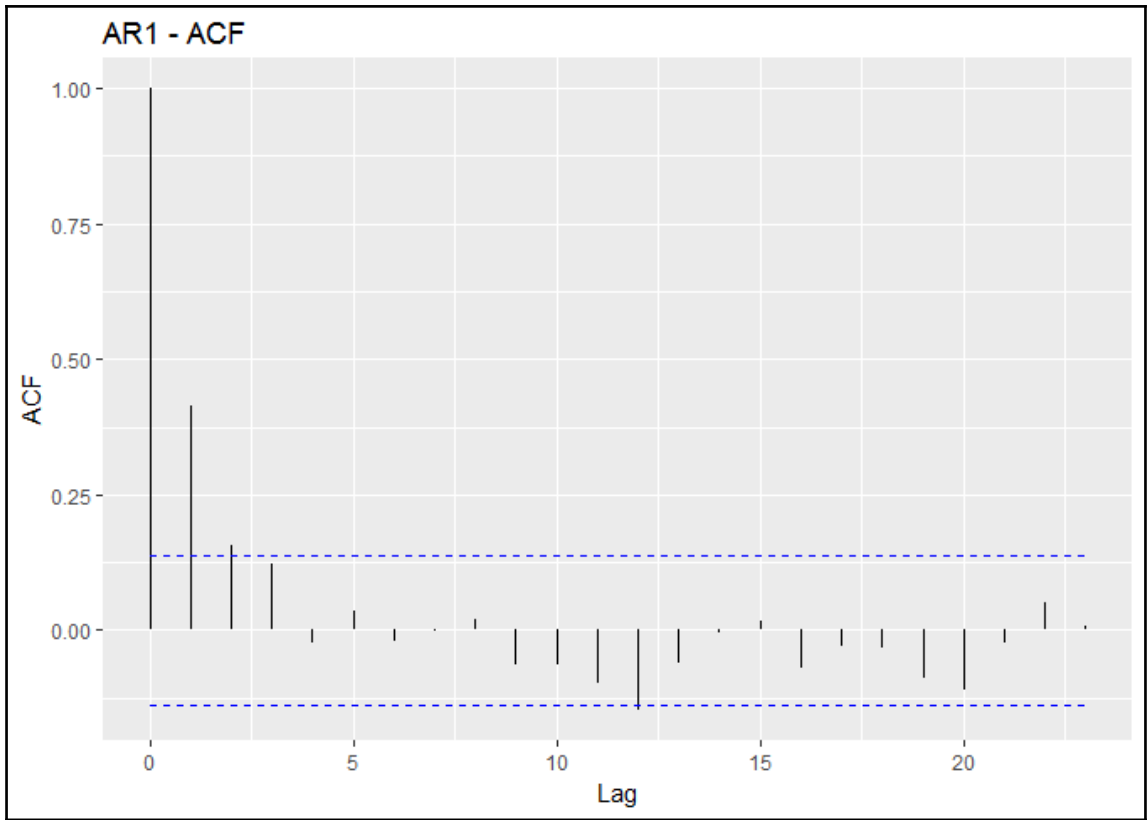


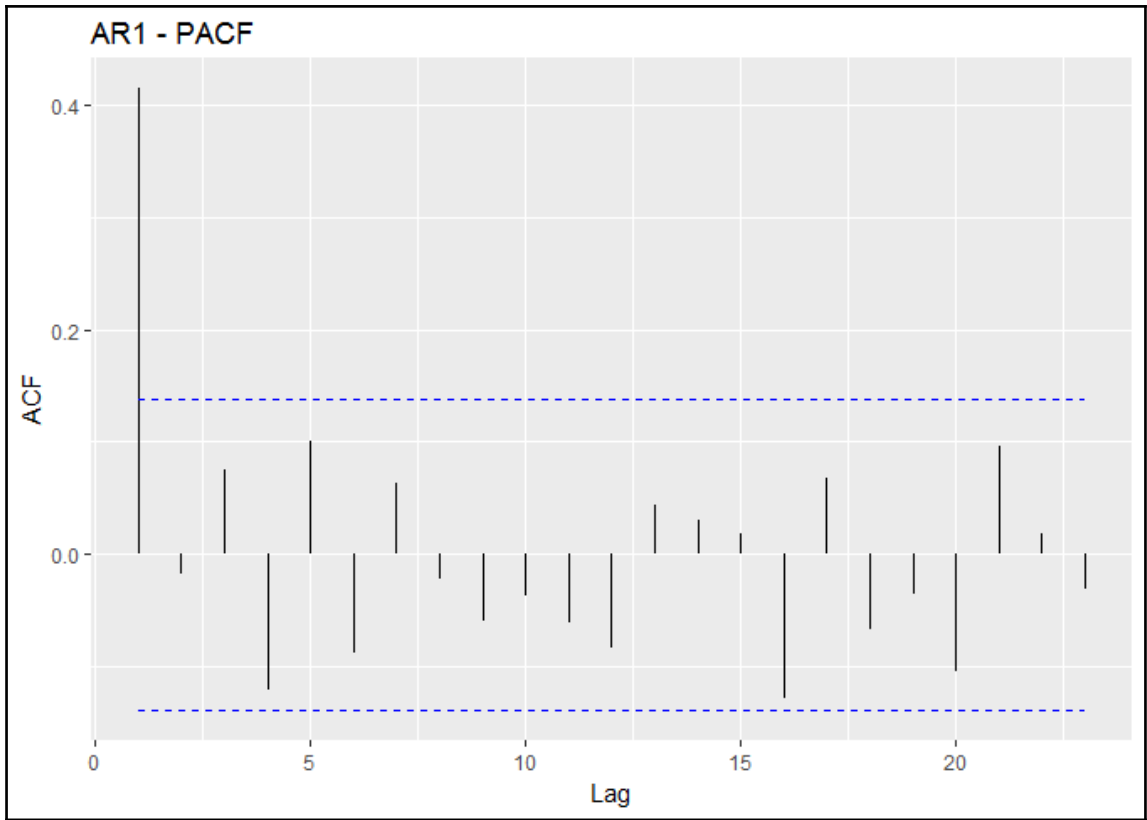


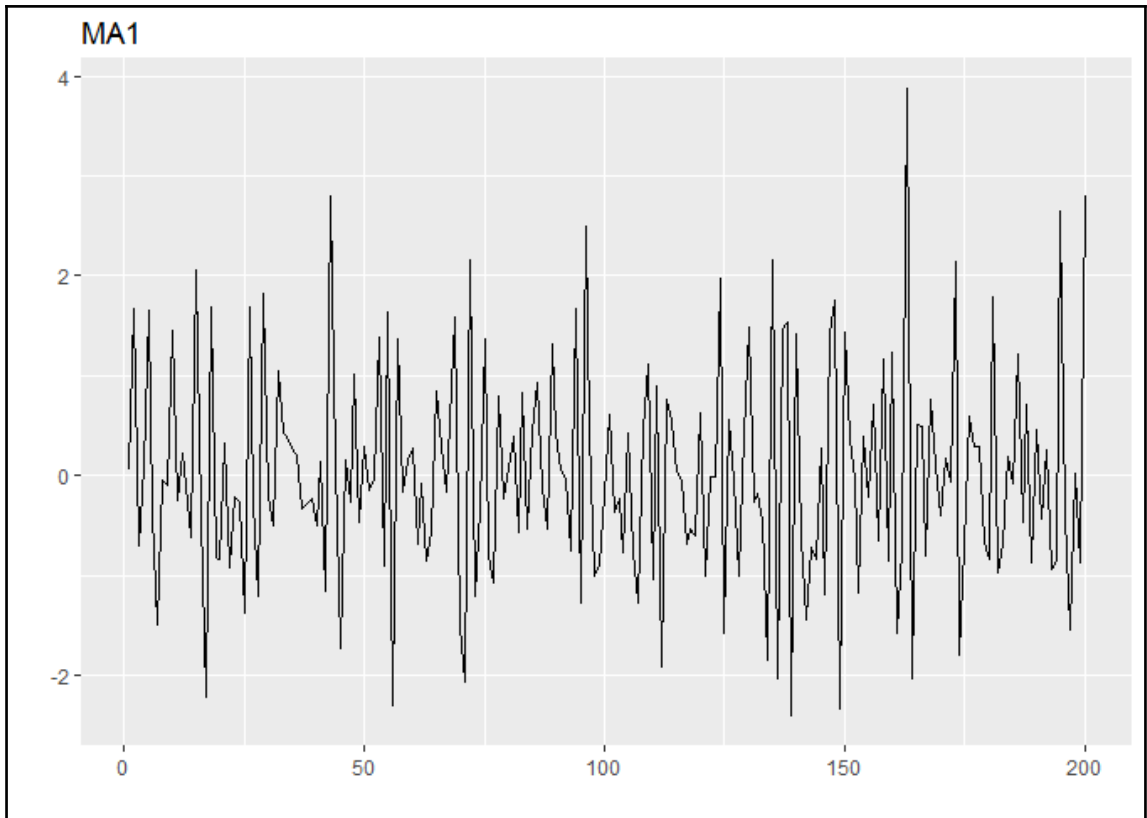


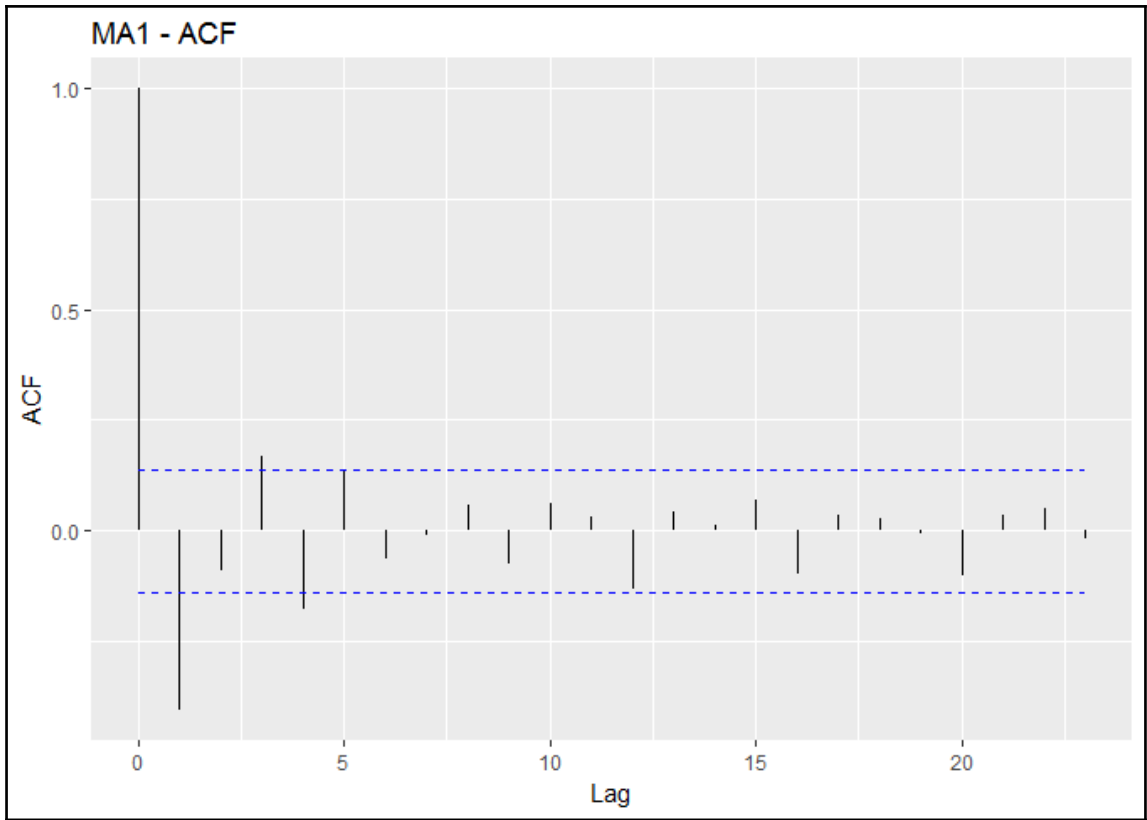
Chapter 12: Time Series and Causality

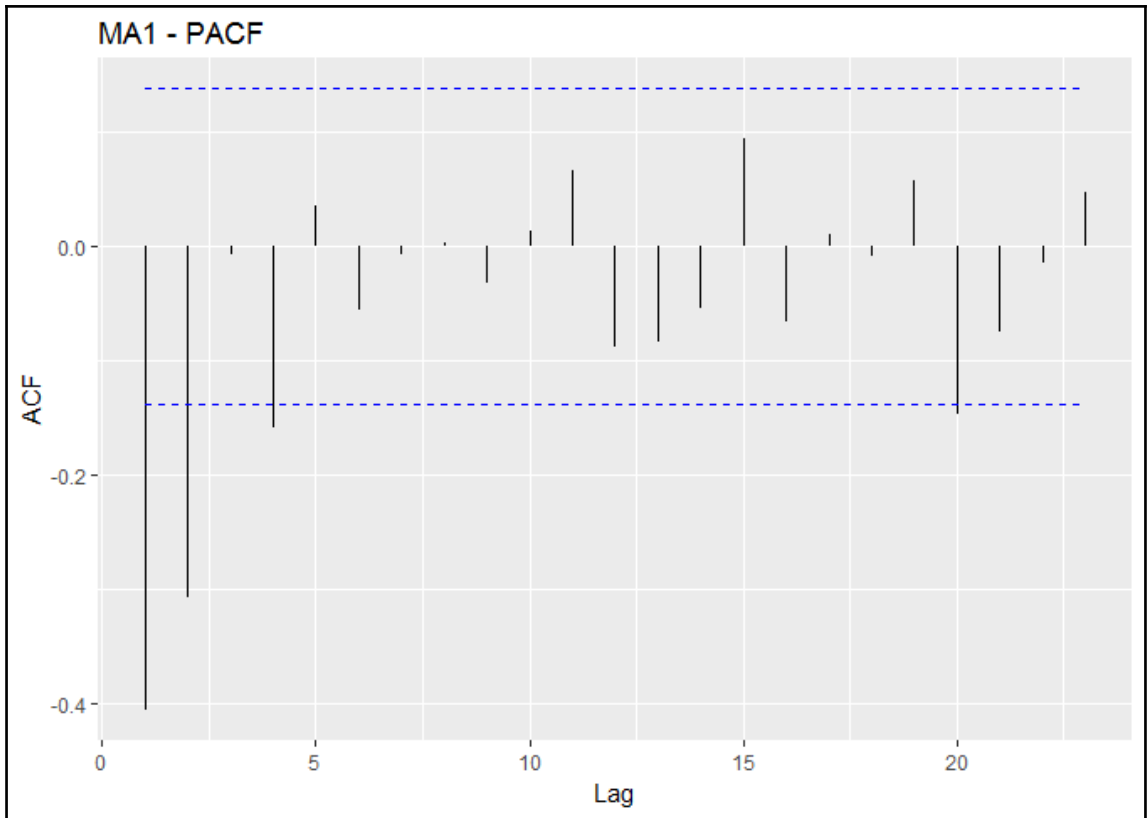




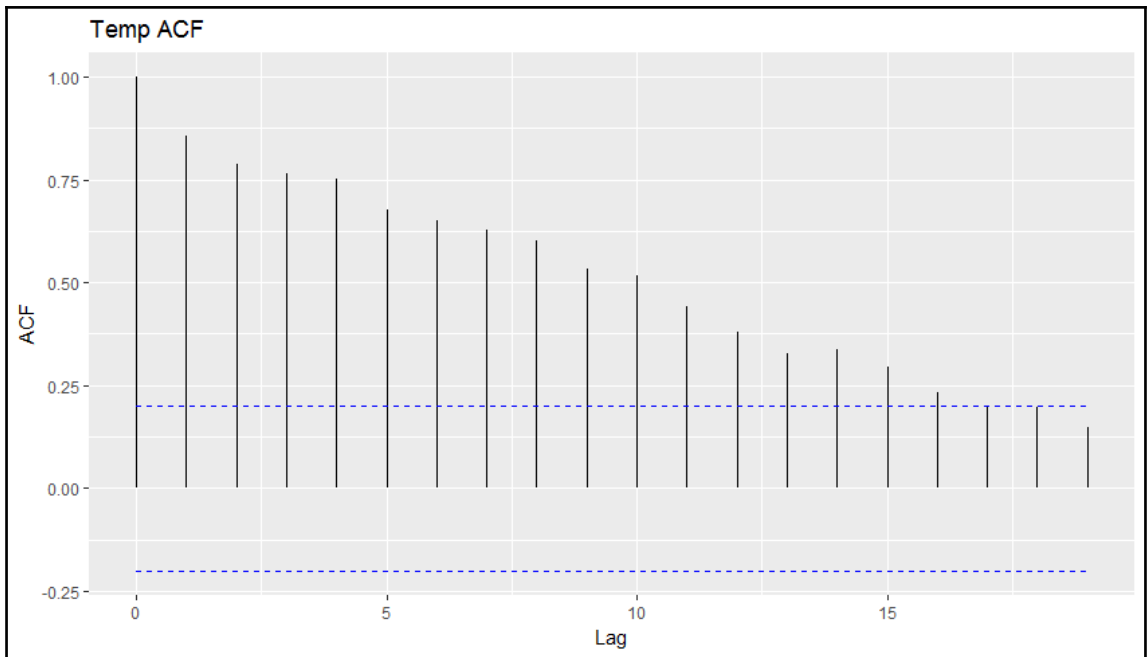
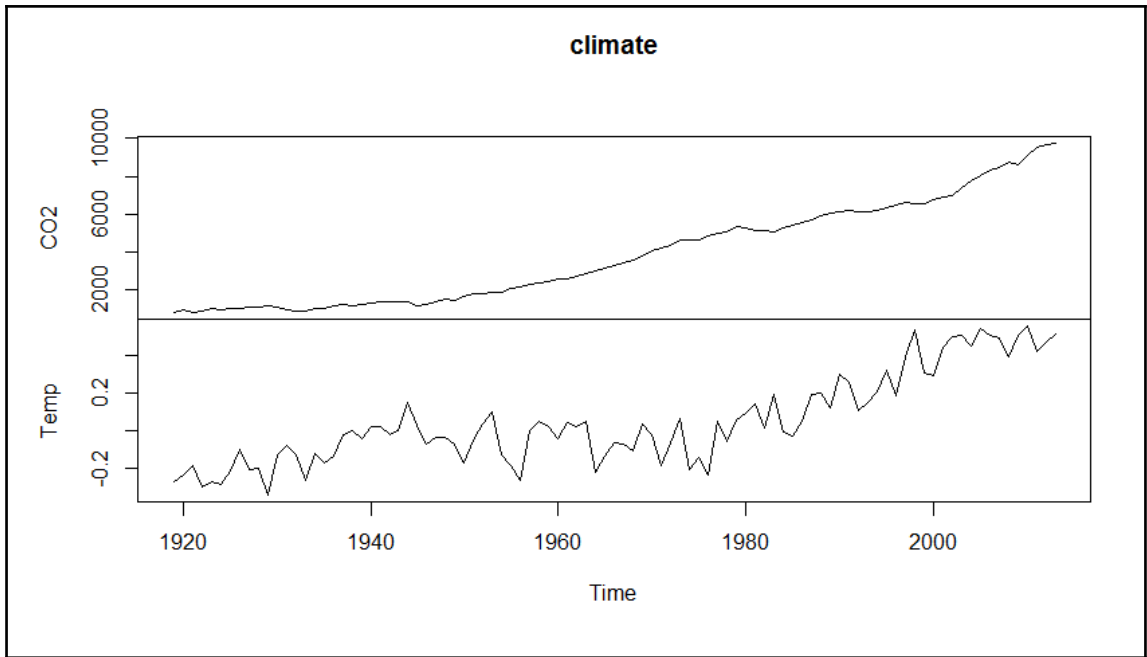


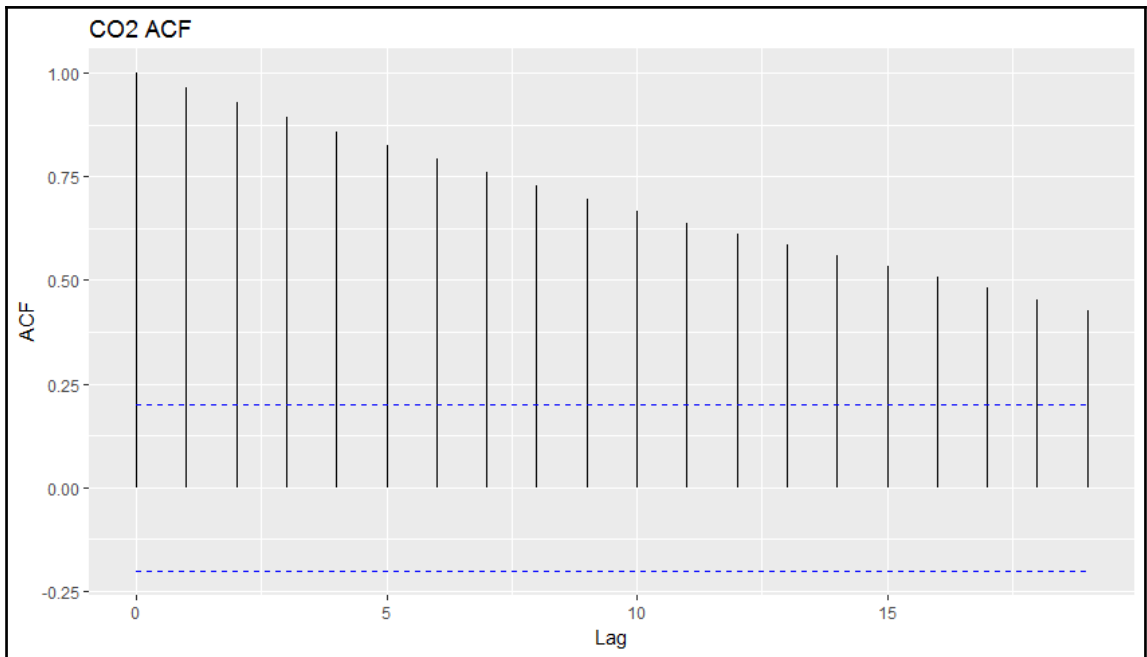
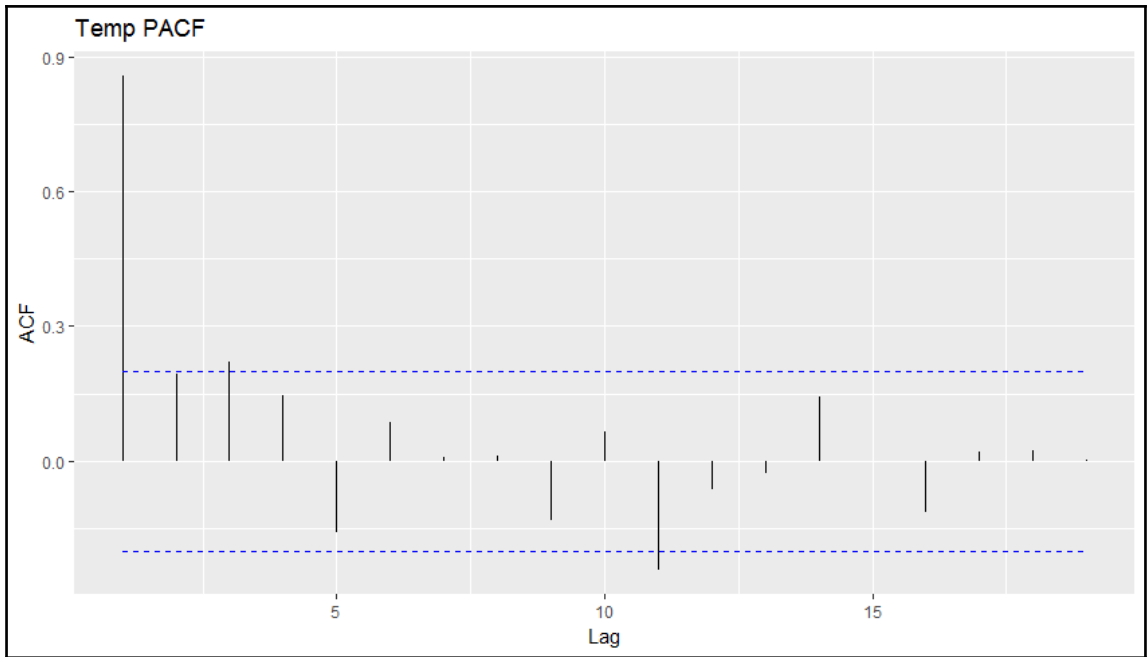


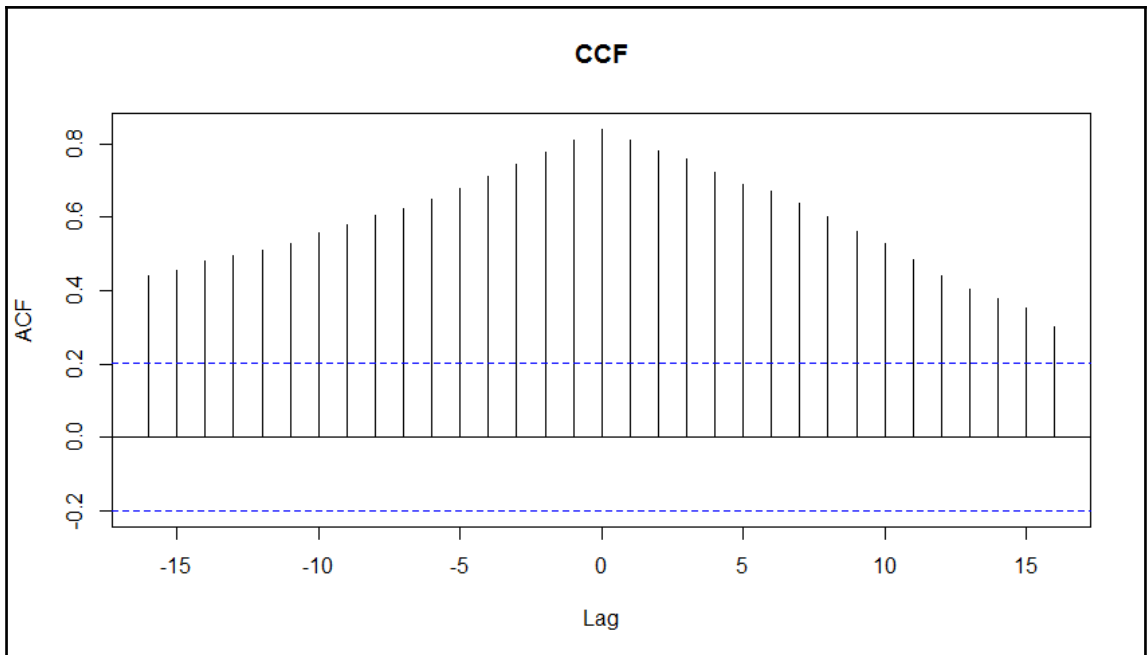
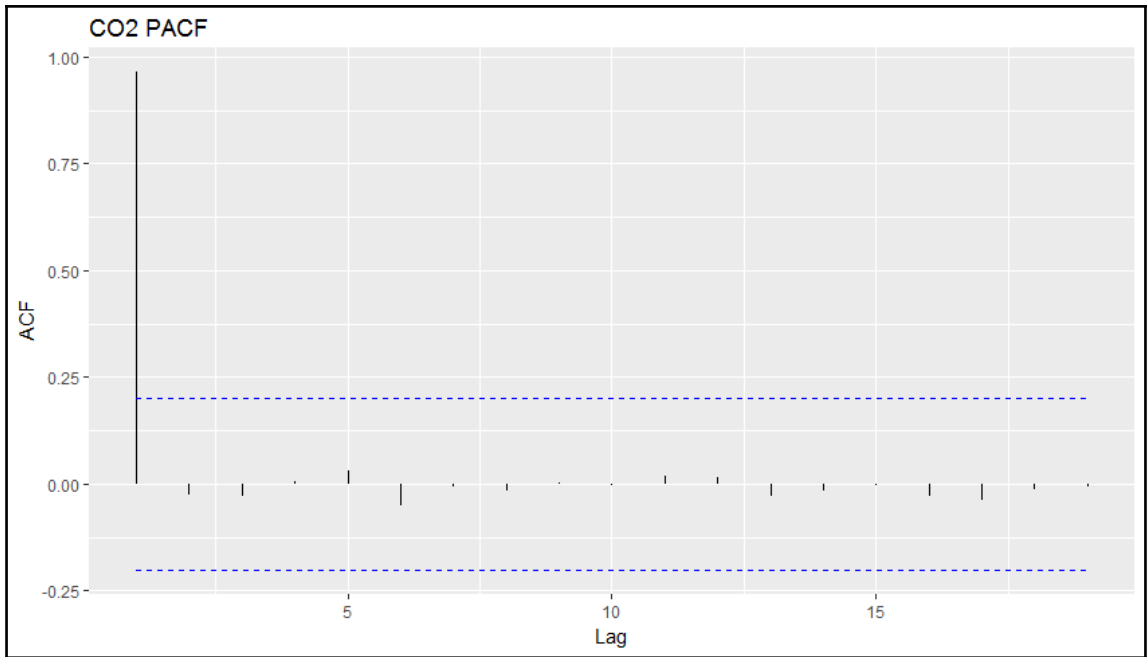


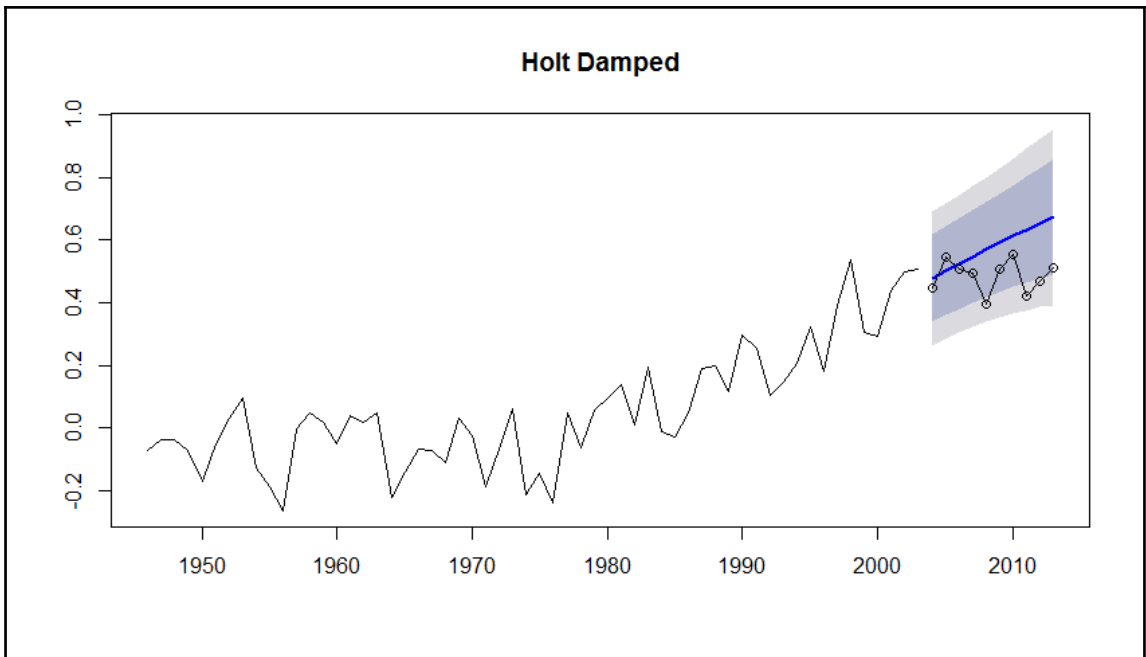
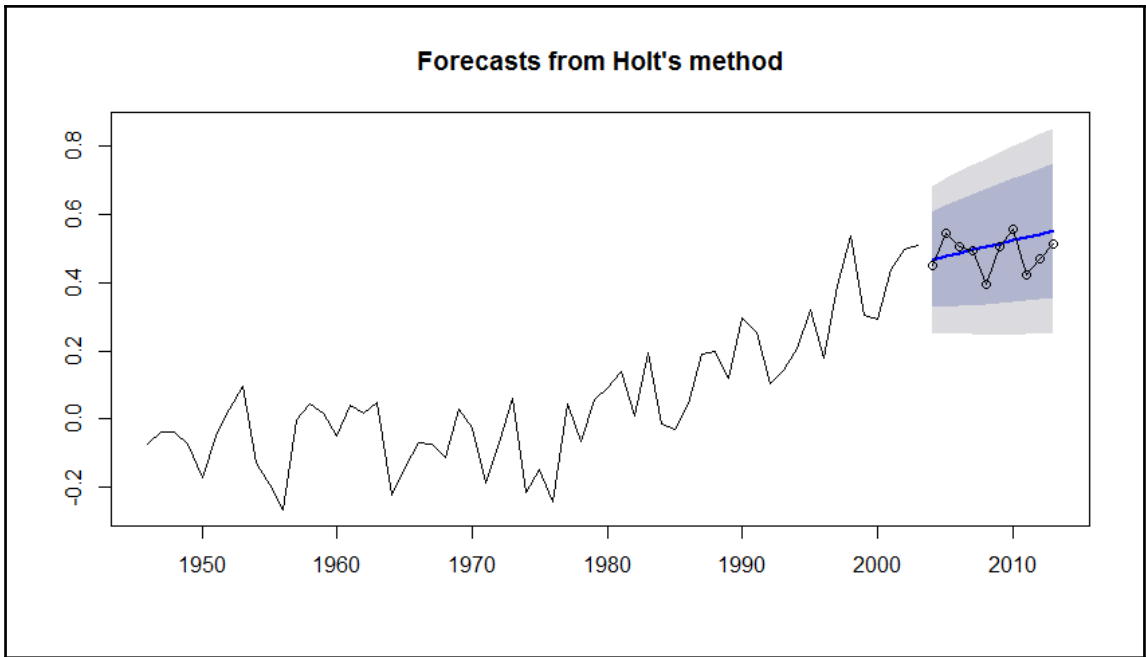


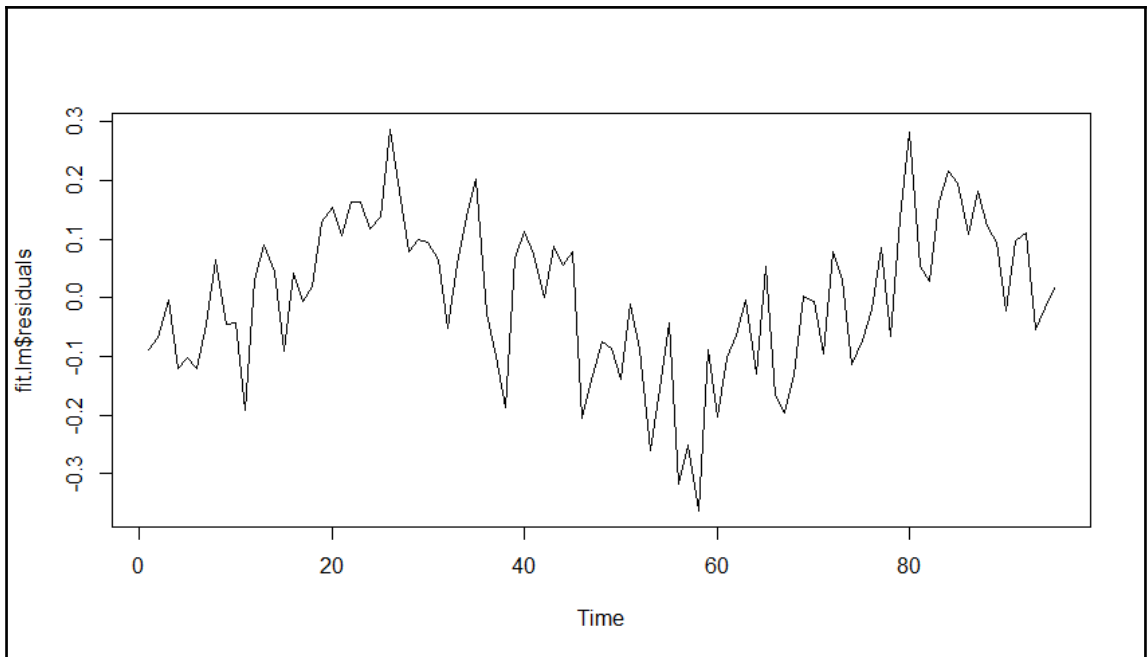
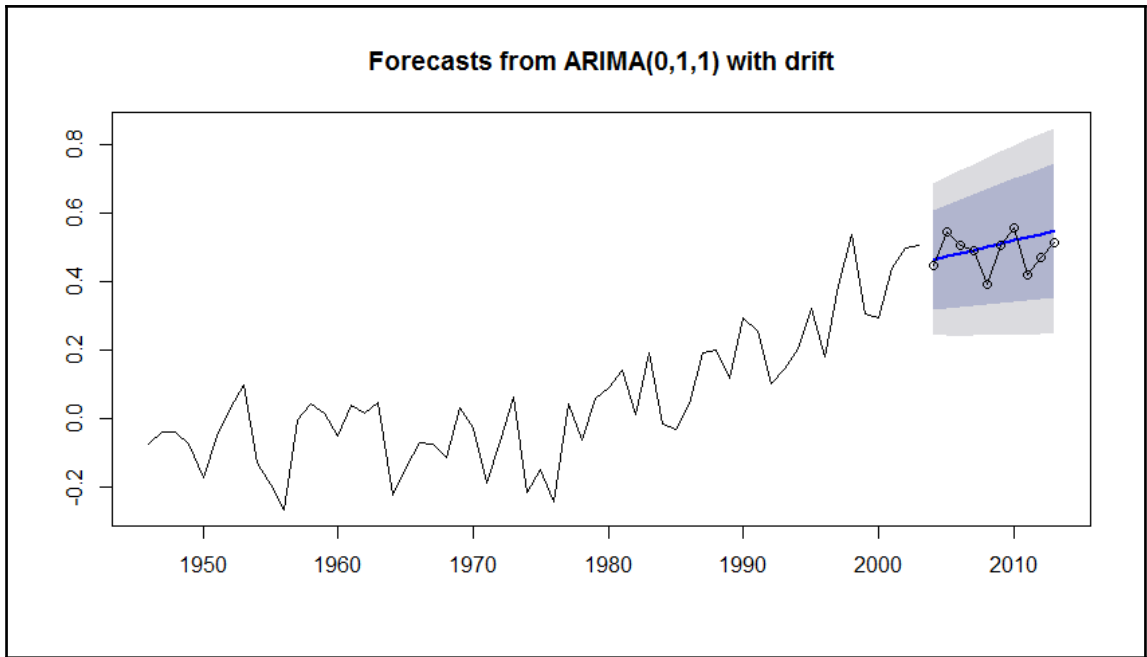
Let $\Omega = y_t = \beta_0 + \beta_1 y_{t-1} + \dots + \beta_k y_{t-k} + \epsilon$
and let $\pi = y_t = \beta_0 + \beta_1 y_{t-1} + \dots + \beta_k y_{t-k} + \alpha_1 y_{t-1} + \dots + \alpha_k y_{t-k} + \epsilon$

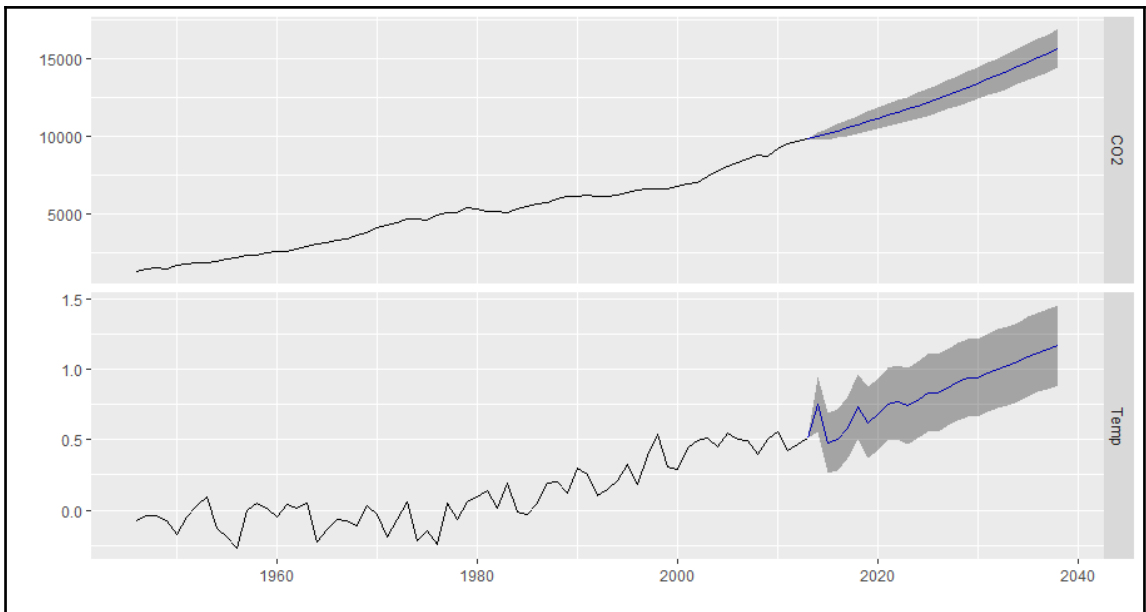
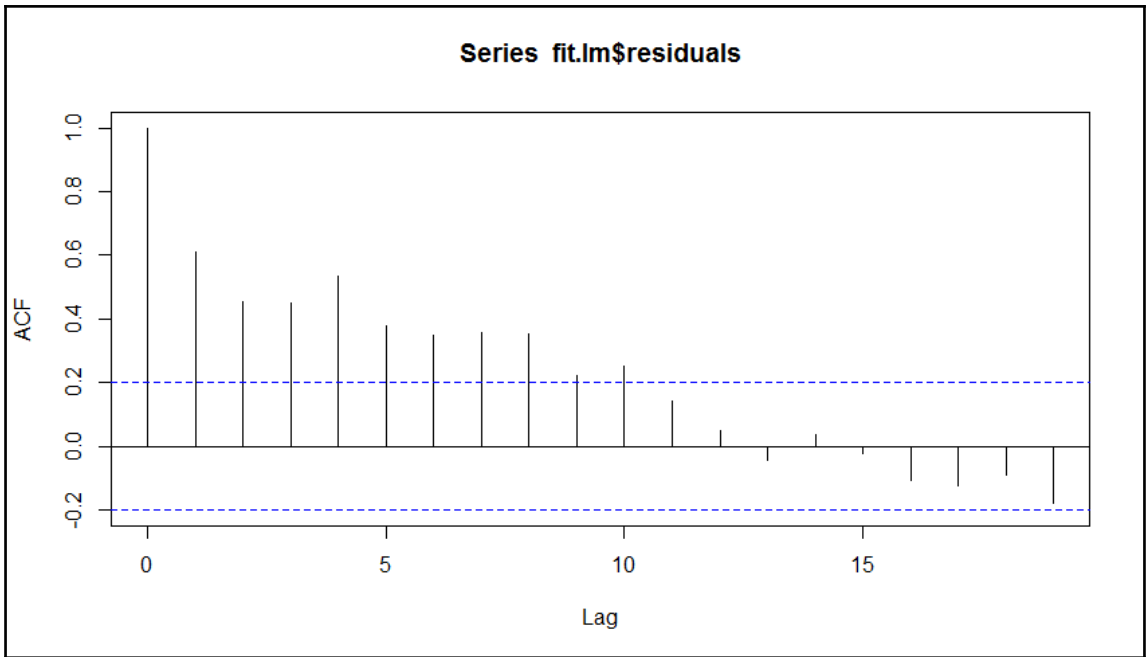




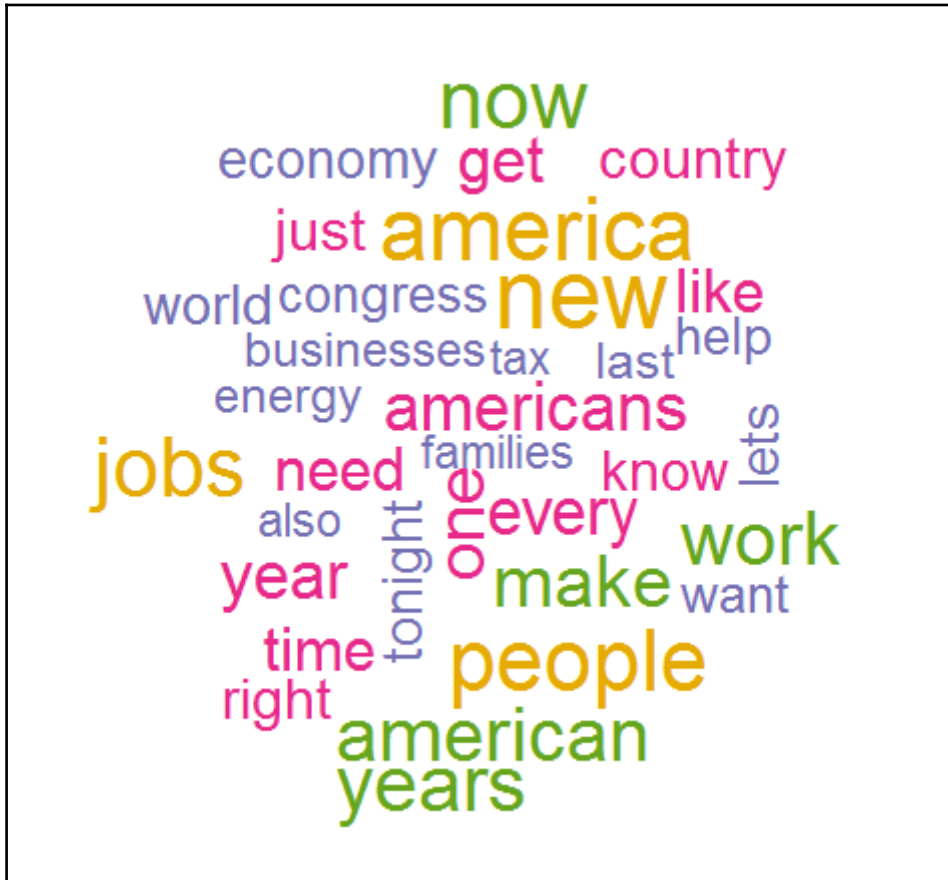


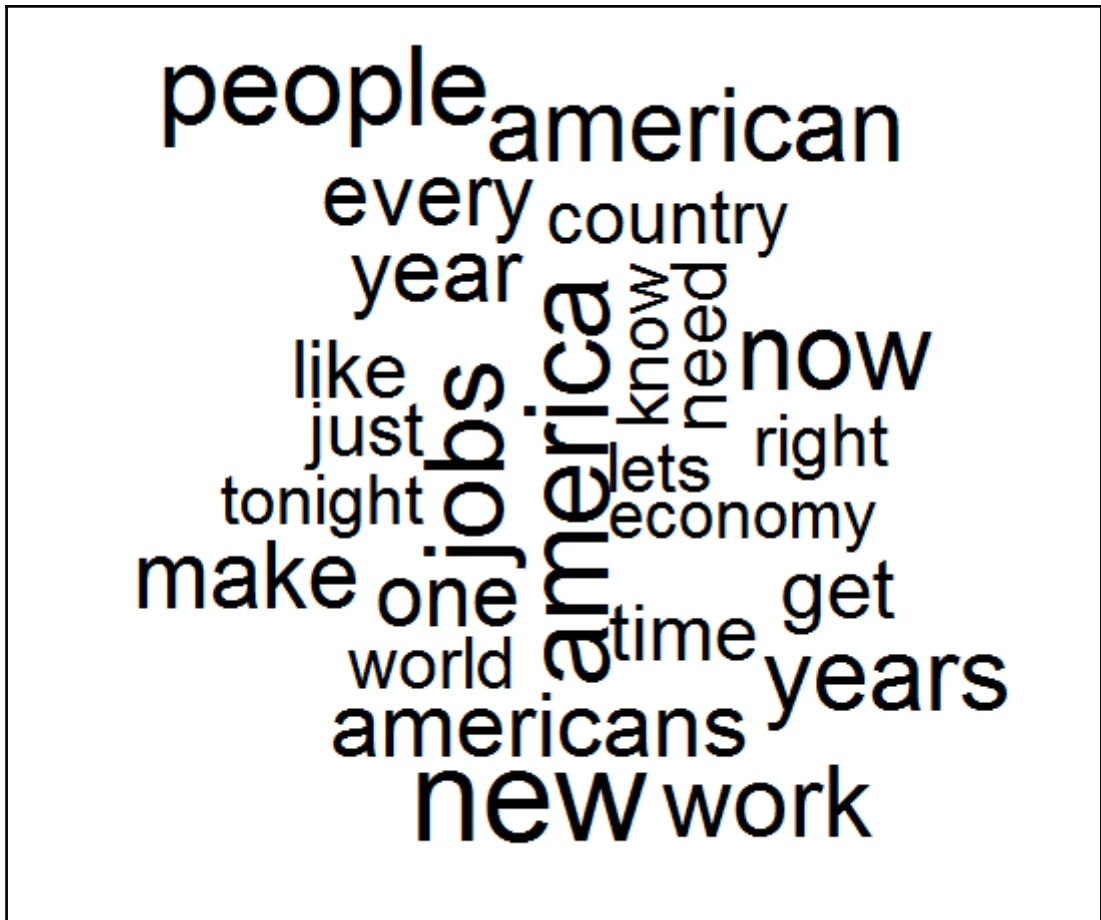


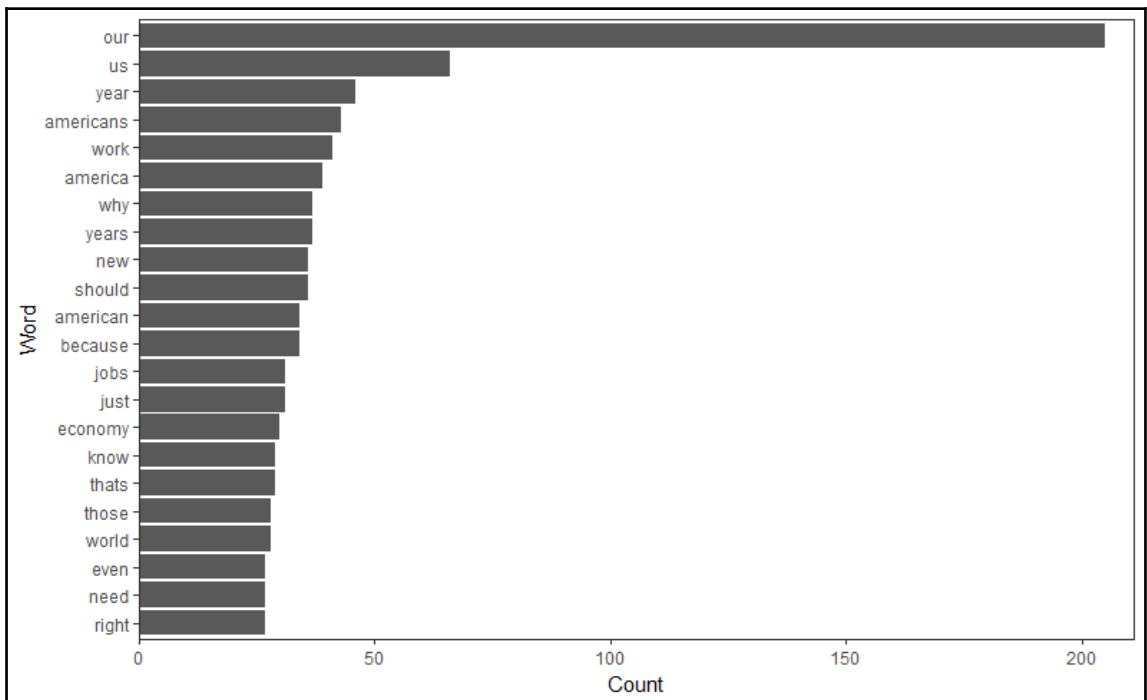
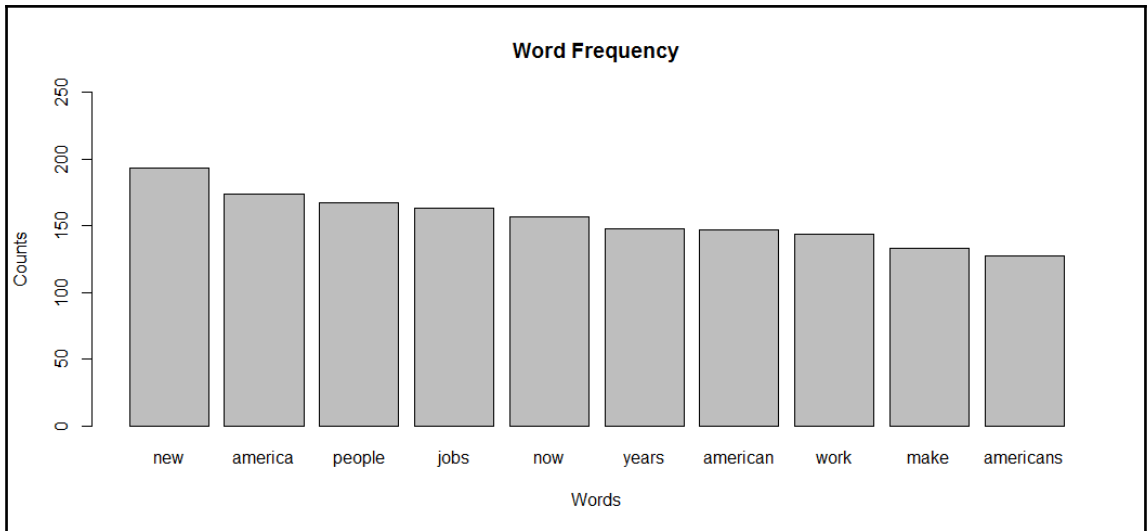




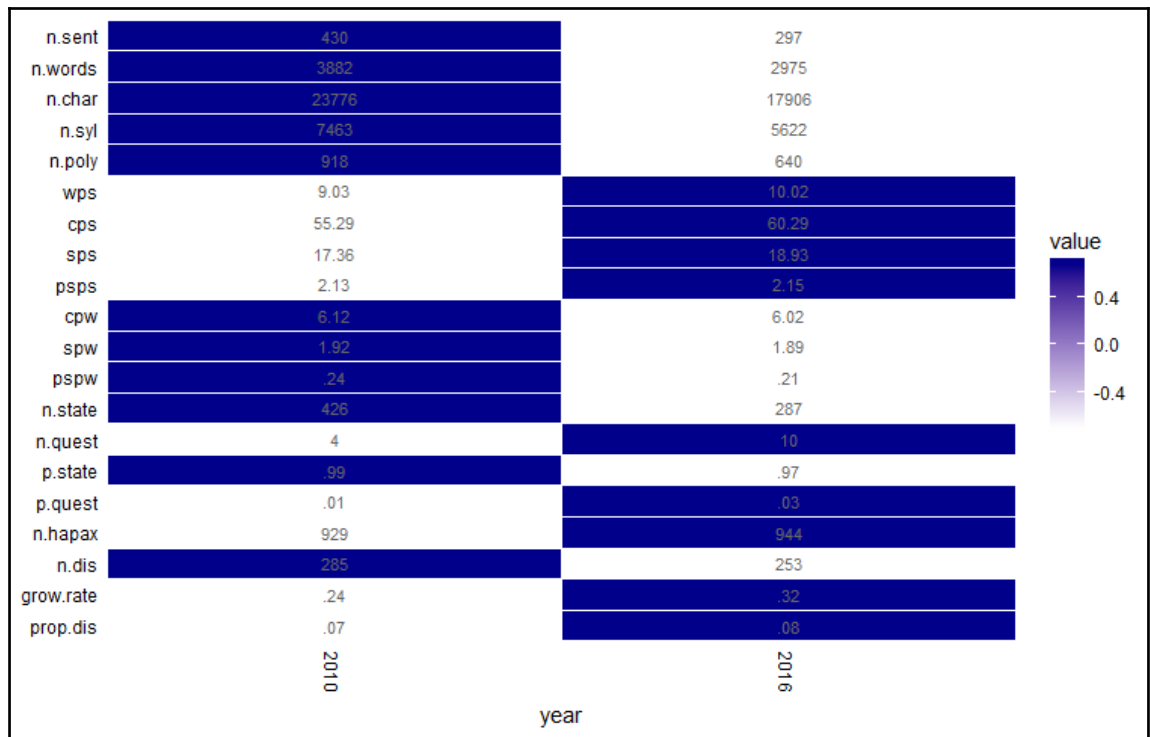
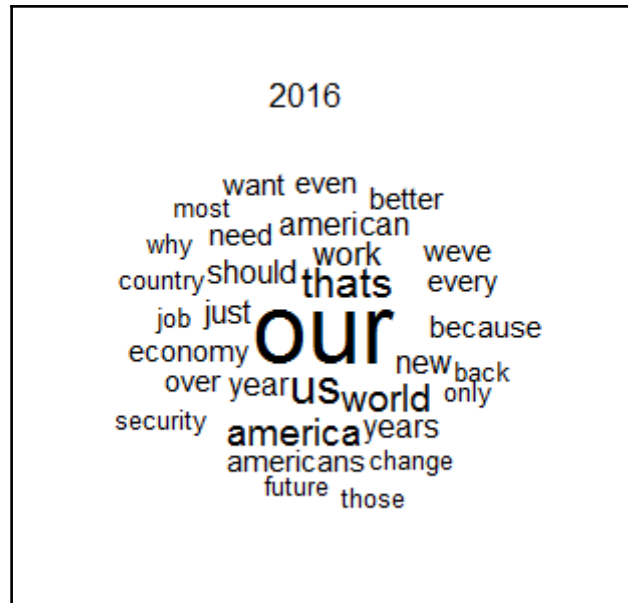
Chapter 13: Text Mining

















Chapter 14: R on the Cloud

AWS services

> All services

Build a solution

Get started with simple wizards and automated workflows.

 <p>Launch a virtual machine With EC2 ~1 minute</p>	 <p>Build a web app With Elastic Beanstalk ~6 minutes</p>	 <p>Deploy a serverless microservice With Lambda, API Gateway ~2 minutes</p>
 <p>Host a static website With S3, CloudFront, Route 53 ~5 minutes</p>	 <p>Create a backend for your mobile app With Mobile Hub ~5 minutes</p>	 <p>Register a domain With Route 53 ~3 minutes</p>

Services ▾ **Resource Groups** ▾ ✦

Quick Launch an EC2 Instance

Amazon EC2 provides virtual machines in the AWS cloud, known as EC2 instances.

This quick launch wizard lets you create an EC2 instance with AWS-recommended default configuration. If you need more options or fine-grained control over instance parameters, please use the [advanced EC2 Launch Instance wizard](#).

Get Started

Services ▾ **Resource Groups** ▾ ✦ Cory Lesmeister ▾ Oregon ▾ Support ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start |< 1 to 31 of 31 AMIs >|

- Amazon Linux AMI 2016.09.1 (HVM), SSD Volume Type** - ami-f173cc91 **Select**
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs Virtualization type: hvm 64-bit
- Red Hat Enterprise Linux 7.3 (HVM), SSD Volume Type** - ami-6f68cf0f **Select**
Red Hat Enterprise Linux version 7.3 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm 64-bit
- SUSE Linux Enterprise Server 12 SP2 (HVM), SSD Volume Type** - ami-e4a30084 **Select**
SUSE Linux Enterprise Server 12 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled. 64-bit

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

Community AMIs

Operating system

4 results for "rstudio aslett" on AWS Marketplace
Partner software pre-configured to run on AWS

- RStudio-0.99.491_R-3.2.3_ubuntu-14.04-LTS-64bit** - ami-1d7f657c **Select**
Ready to run RStudio server for statistical computation (www.louisaslett.com). Connect to instance public DNS in web browser (standard port 80), username rstudio and password rstudio 64-bit

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All Instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, launch-wizard-2, is open to the world.
 Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details

RStudio-0.99.491_R-3.2.3_ubuntu-14.04-LTS-64bit - ami-1d7f657c
 Ready to run RStudio server for statistical computation (www.louisaslett.com). Connect to instance public DNS in web browser (standard port 80), username rstudio and password rstudio
 Root Device Type: ebs Virtualization type: hvm

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security group name:
 Description:

Type	Protocol	Port Range	Source
All traffic	All	0 - 65535	My IP 24.214.32.76/32
Custom TCP Rule	TCP	8787	Anywhere 0.0.0.0/0

Cancel Previous **Review and Launch**

Select an existing key pair or create a new key pair ✕


A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair ▾

Key pair name



Download Key Pair

 You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

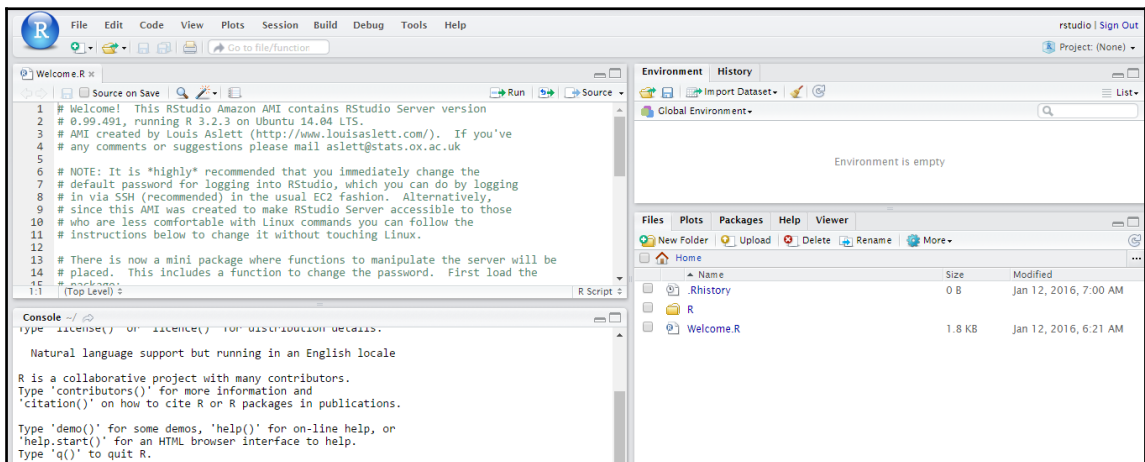
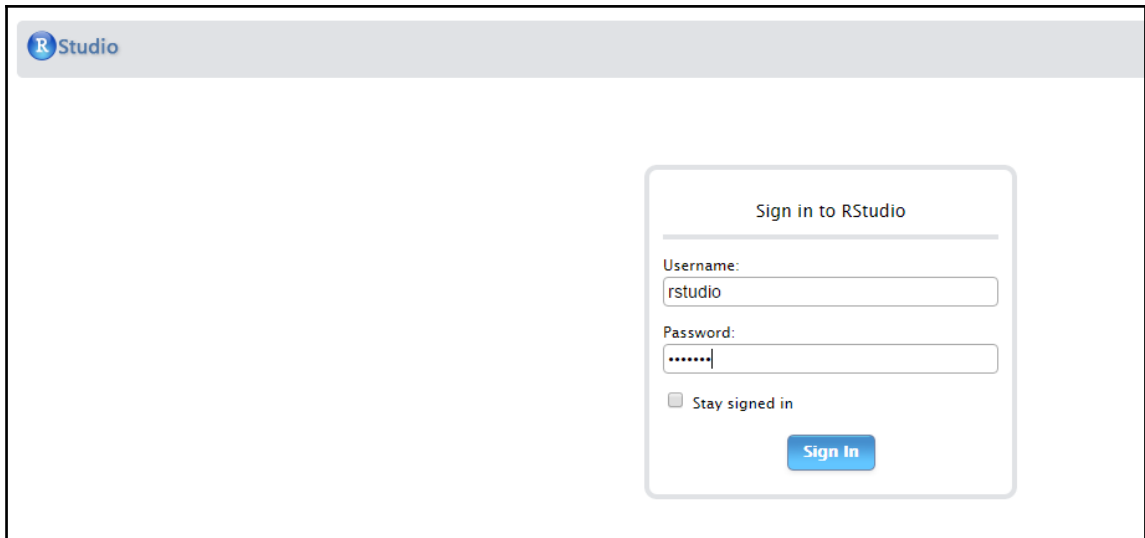
Cancel **Launch Instances**

Launch Instance **Connect** **Actions** ▾


Filter by tags and attributes or search by keyword ?

<input type="checkbox"/>	Name ▾	Instance ID ▾	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	
<input checked="" type="checkbox"/>		i-02f4e9d7812b137f5	t2.micro	us-west-2c	● running	⌚ Initializing	None	
<input type="checkbox"/>	edition2	i-0e6d1289cf24dd343	t2.micro	us-west-2a	● stopped		None	

Instance: **i-02f4e9d7812b137f5** **Public DNS: ec2-35-162-137-32.us-west-2.compute.amazonaws.com**



Appendix A: R Fundamentals



The R Project for Statistical Computing

[\[Home\]](#)

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CRAN

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Contributors
What's New?
Reporting Bugs
Development Site
Conferences
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R Foundation
Foundation
Board
Members
Donors
Donate

Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To **download R**, please choose your preferred [CRAN mirror](#).

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

News

- **R version 3.3.3 (Another Canoe) prerelease versions** will appear starting Friday 2017-02-24. Final release is scheduled for Monday 2017-03-06.
- **useR! 2017** (July 4 - 7 in Brussels) has opened registration and more at <http://user2017.brussels/>
- Tomas Kalibera has joined the R core team.
- The R Foundation welcomes five new ordinary members: Jennifer Bryan, Dianne Cook, Julie Josse, Tomas Kalibera, and Balasubramanian Narasimhan.
- **R version 3.3.2 (Sincere Pumpkin Patch)** has been released on Monday 2016-10-31.
- **The R Journal Volume 8/1** is available.
- The **useR! 2017** conference will take place in Brussels, July 4 - 7, 2017.
- **R version 3.3.1 (Bug in Your Hair)** has been released on Tuesday 2016-06-21.

CRAN Mirrors	
The Comprehensive R Archive Network is available at the following URLs, please choose a location close to you. Some statistics on the status of the mirrors can be found here: main page , windows release , windows old release .	
0-Cloud	https://cloud.r-project.org/ http://cloud.r-project.org/
Algeria	https://cran.usthb.dz/ http://cran.usthb.dz/
Argentina	http://mirror.fcaglp.unlp.edu.ar/CRAN/
Australia	https://cran.csiro.au/ http://cran.csiro.au/ https://cran.ms.unimelb.edu.au/ http://cran.ms.unimelb.edu.au/ https://cran.curtin.edu.au/
Austria	https://cran.wu.ac.at/ http://cran.wu.ac.at/
Belgium	http://www.freeststatistics.org/cran/ https://lib.ugent.be/CRAN/ http://lib.ugent.be/CRAN/
	Automatic redirection to servers worldwide, currently sponsored by Rstudio
	Automatic redirection to servers worldwide, currently sponsored by Rstudio
	University of Science and Technology Houari Boumediene
	University of Science and Technology Houari Boumediene
	Universidad Nacional de La Plata
	CSIRO
	CSIRO
	University of Melbourne
	University of Melbourne
	Curtin University of Technology
	Wirtschaftsuniversität Wien
	Wirtschaftsuniversität Wien
	K.U Leuven Association
	Ghent University Library
	Ghent University Library

USA	
https://cran.cnr.berkeley.edu/	University of California, Berkeley, CA
http://cran.cnr.berkeley.edu/	University of California, Berkeley, CA
http://cran.stat.ucla.edu/	University of California, Los Angeles, CA
https://mirror.las.iastate.edu/CRAN/	Iowa State University, Ames, IA
http://mirror.las.iastate.edu/CRAN/	Iowa State University, Ames, IA
https://ftp.ussg.iu.edu/CRAN/	Indiana University
http://ftp.ussg.iu.edu/CRAN/	Indiana University
https://rweb.crmda.ku.edu/cran/	University of Kansas, Lawrence, KS
http://rweb.crmda.ku.edu/cran/	University of Kansas, Lawrence, KS
https://cran.mtu.edu/	Michigan Technological University, Houghton, MI
http://cran.mtu.edu/	Michigan Technological University, Houghton, MI
http://cran.wustl.edu/	Washington University, St. Louis, MO
http://archive.linux.duke.edu/cran/	Duke University, Durham, NC
http://cran.case.edu/	Case Western Reserve University, Cleveland, OH
http://iis.stat.wright.edu/CRAN/	Wright State University, Dayton, OH

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages. **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

R-3.3.2 for Windows (32/64 bit)

[Download R 3.3.2 for Windows](#) (62 megabytes, 32/64 bit)

[Installation and other instructions](#)

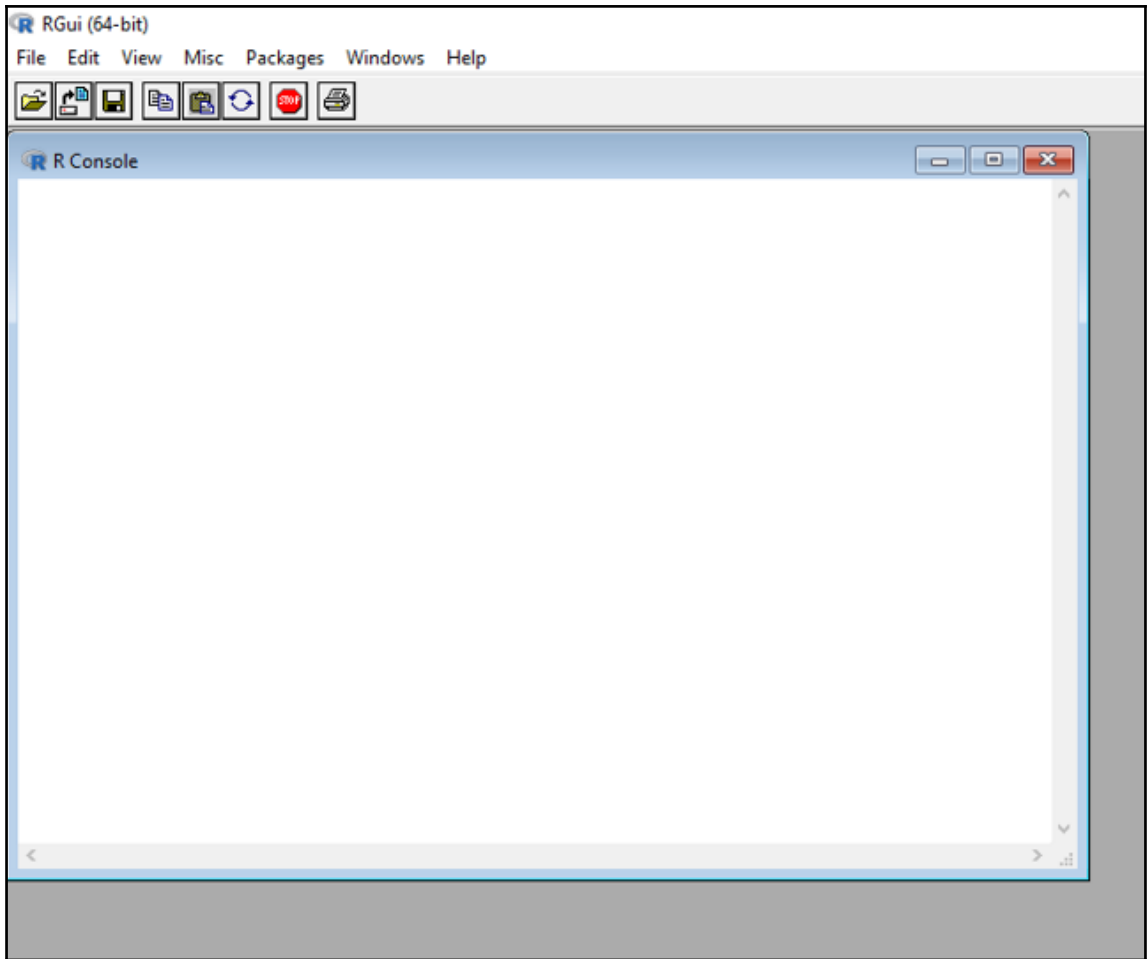
[New features in this version](#)

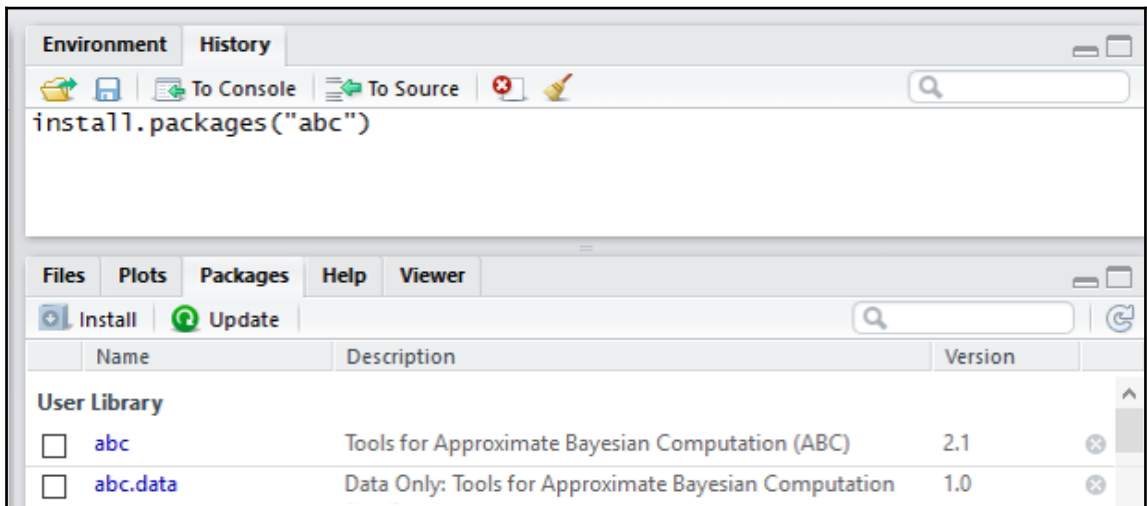
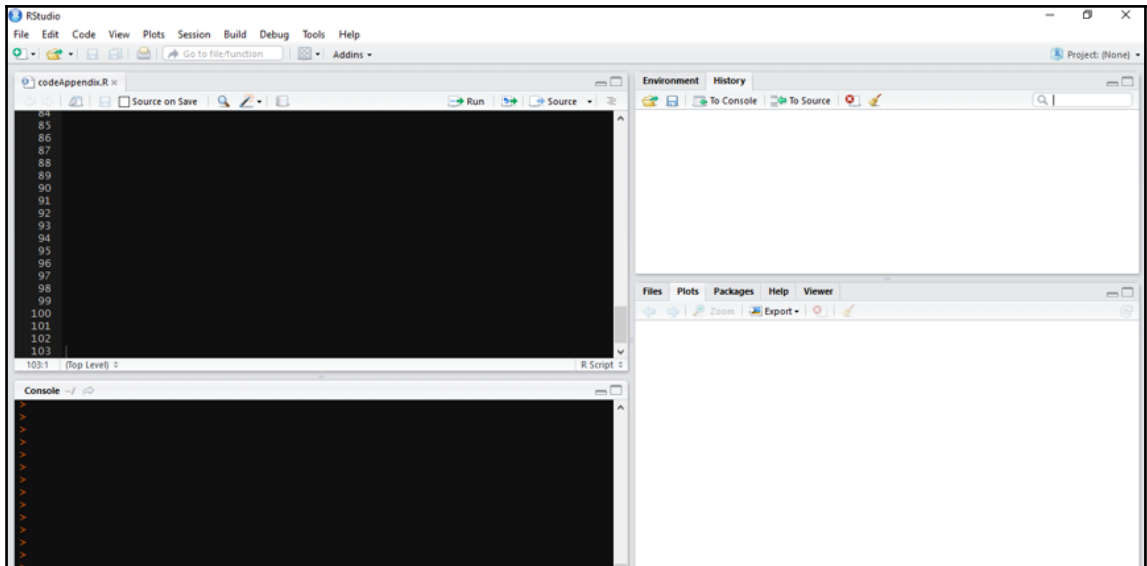
If you want to double-check that the package you have downloaded exactly matches the package distributed by R, you can compare the [md5sum](#) of the .exe to the [true fingerprint](#). You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

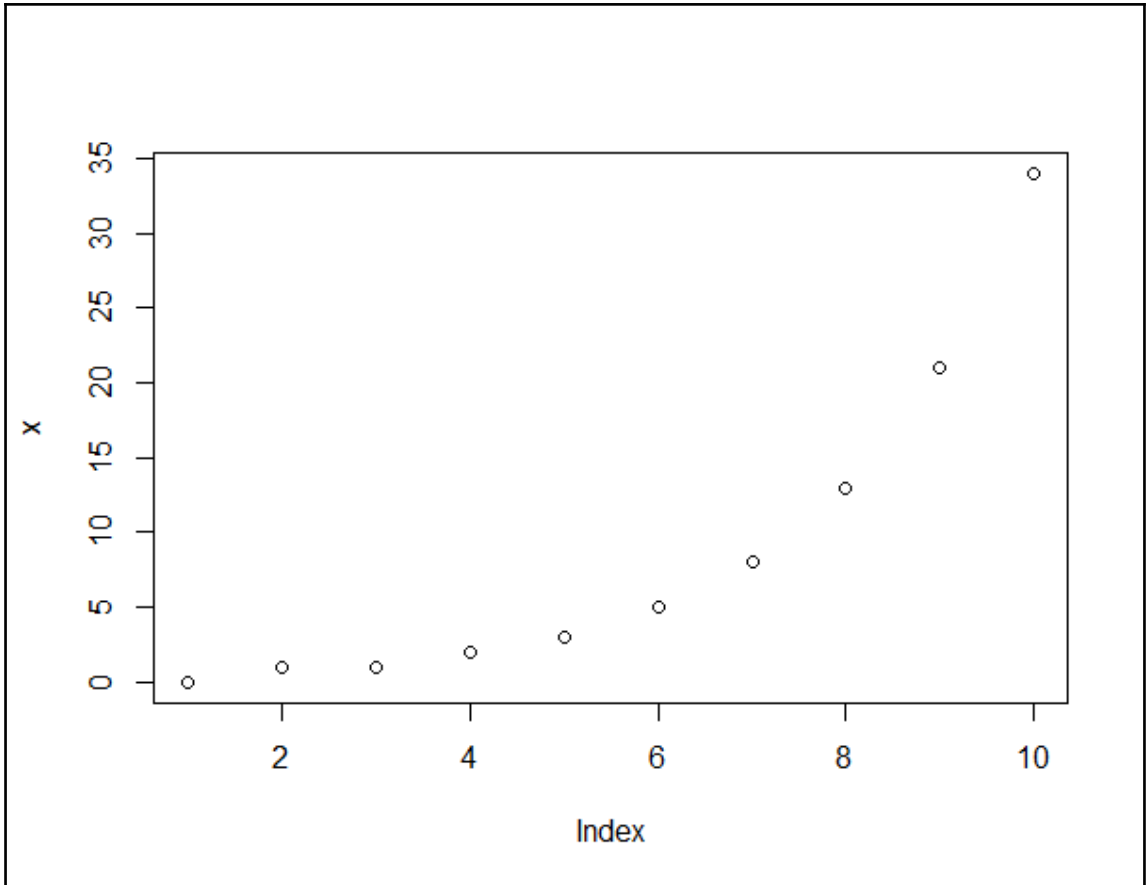
Frequently asked questions

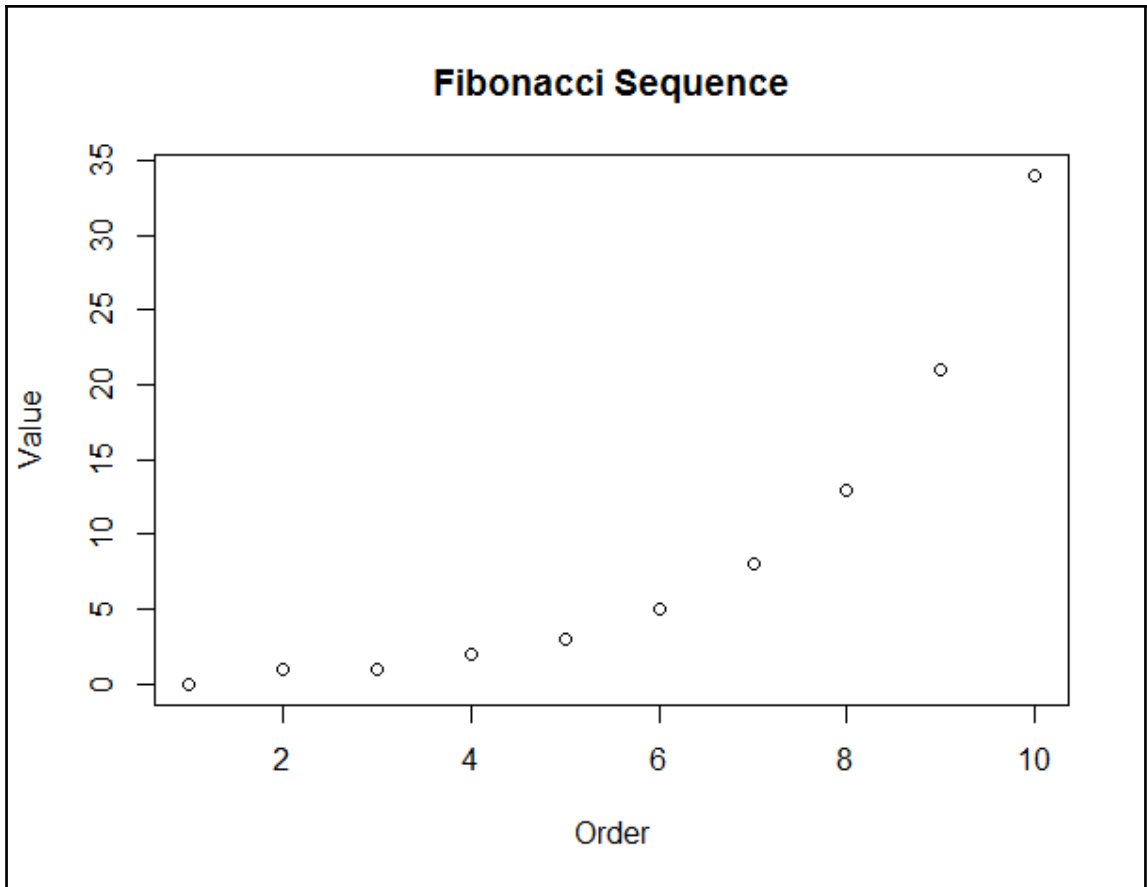
- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

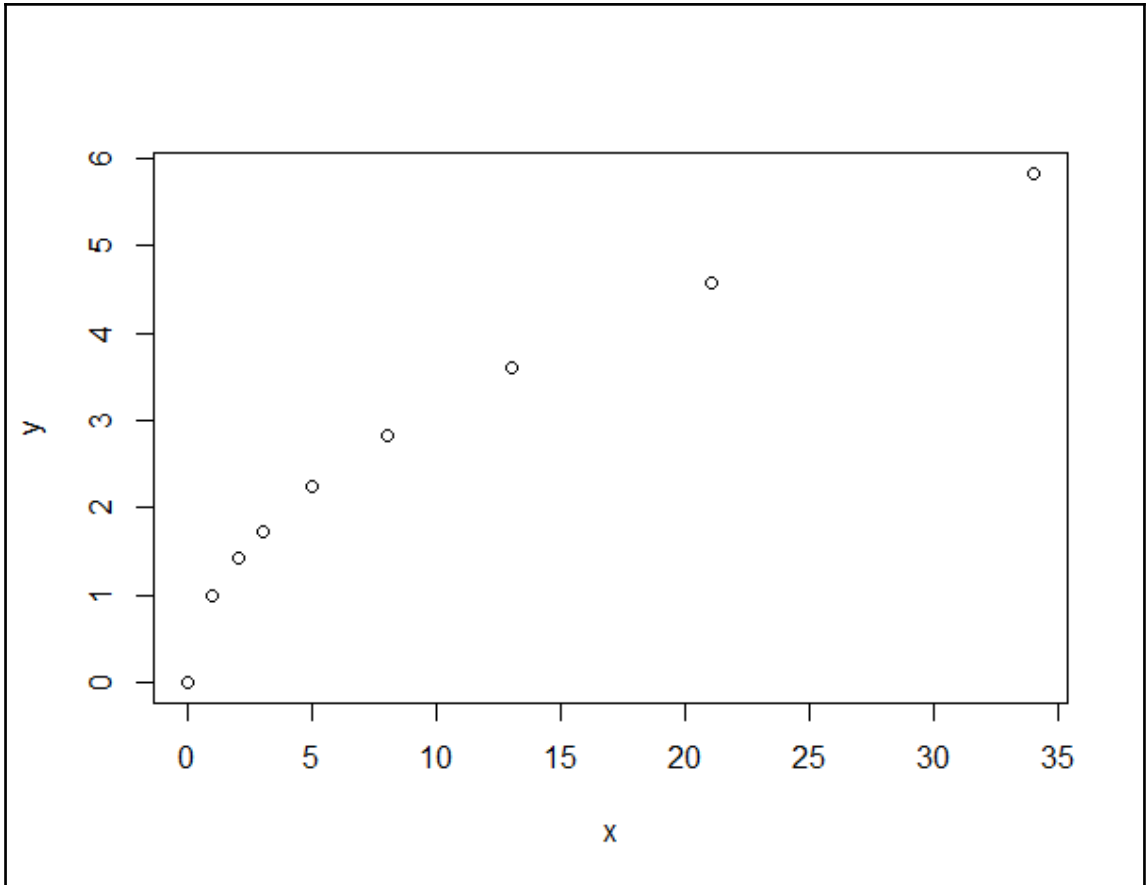
Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

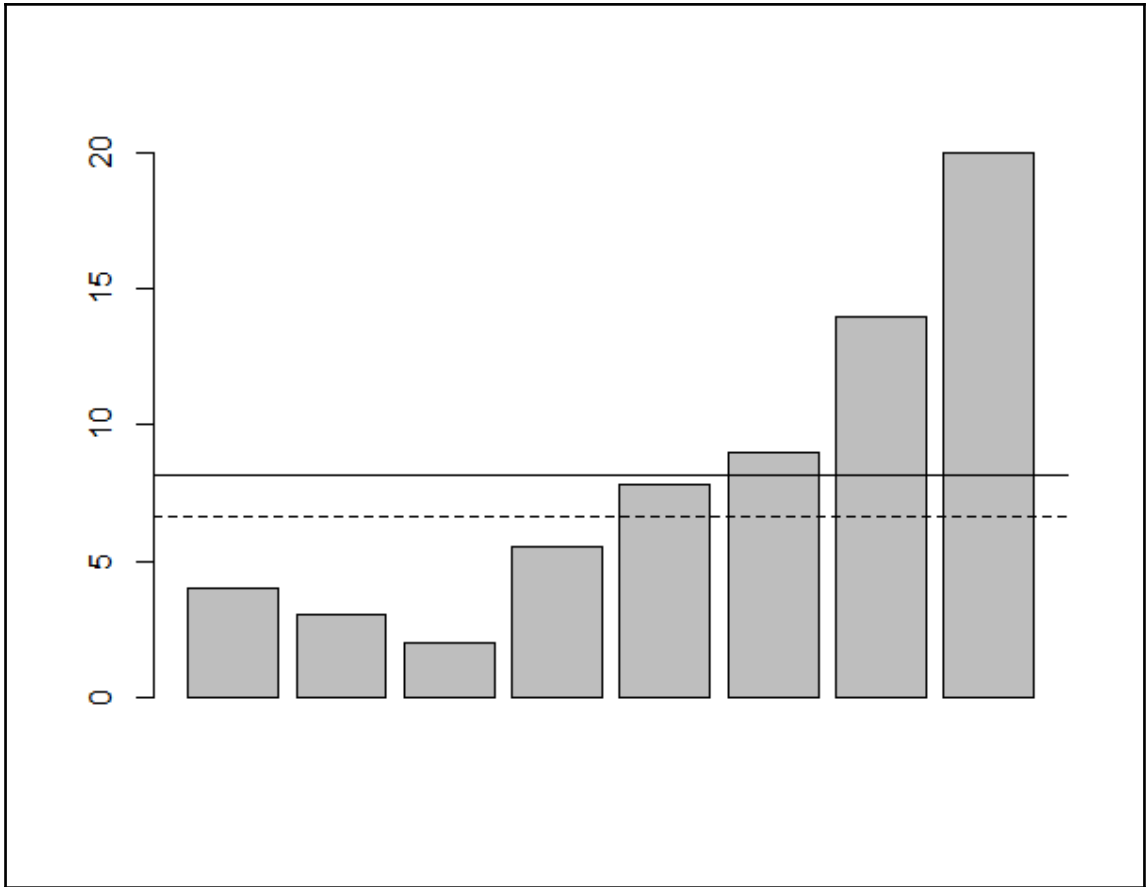


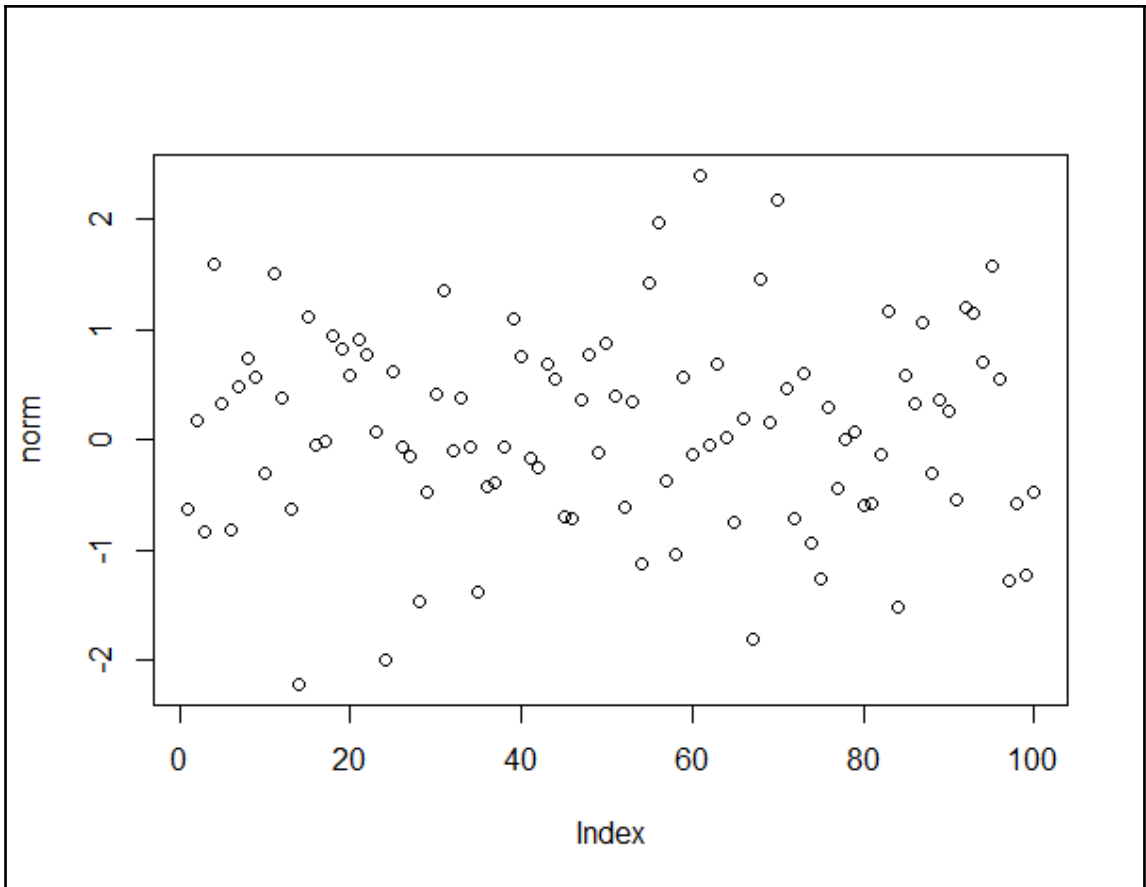


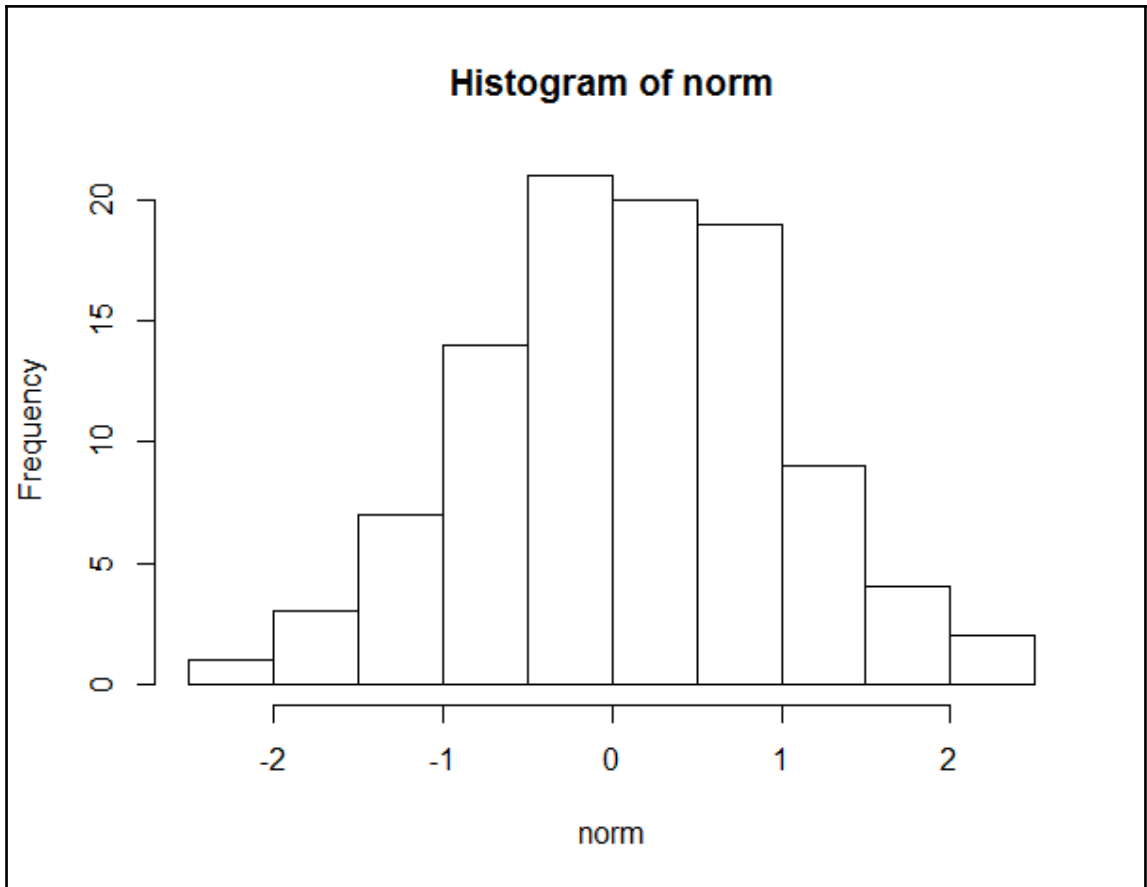


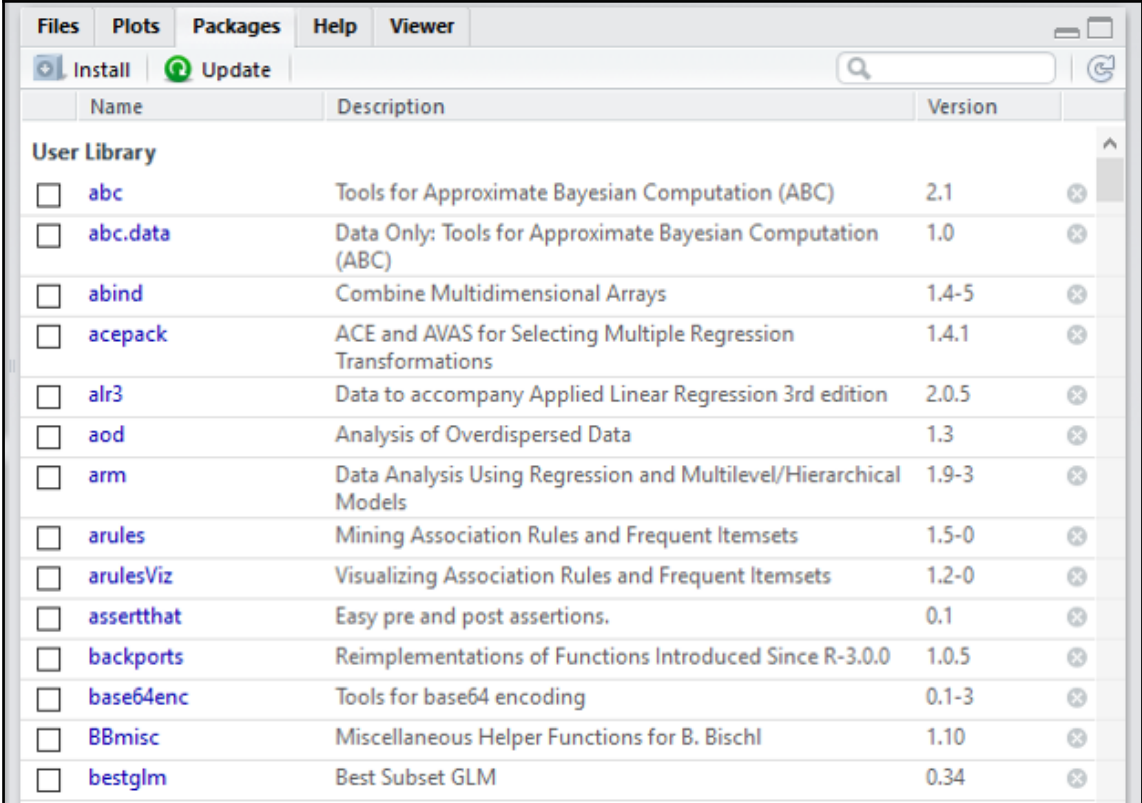












The screenshot shows the R Package Manager (installr) interface. At the top, there are menu items: Files, Plots, Packages, Help, and Viewer. Below the menu, there are buttons for 'Install' and 'Update', a search bar, and a refresh icon. The main area displays a table of packages under the heading 'User Library'. Each row includes a checkbox, the package name, a description, the version number, and a small 'x' icon in the right margin.

	Name	Description	Version	
User Library				
<input type="checkbox"/>	abc	Tools for Approximate Bayesian Computation (ABC)	2.1	⊗
<input type="checkbox"/>	abc.data	Data Only: Tools for Approximate Bayesian Computation (ABC)	1.0	⊗
<input type="checkbox"/>	abind	Combine Multidimensional Arrays	1.4-5	⊗
<input type="checkbox"/>	acepack	ACE and AVAS for Selecting Multiple Regression Transformations	1.4.1	⊗
<input type="checkbox"/>	alr3	Data to accompany Applied Linear Regression 3rd edition	2.0.5	⊗
<input type="checkbox"/>	aod	Analysis of Overdispersed Data	1.3	⊗
<input type="checkbox"/>	arm	Data Analysis Using Regression and Multilevel/Hierarchical Models	1.9-3	⊗
<input type="checkbox"/>	arules	Mining Association Rules and Frequent Itemsets	1.5-0	⊗
<input type="checkbox"/>	arulesViz	Visualizing Association Rules and Frequent Itemsets	1.2-0	⊗
<input type="checkbox"/>	assertthat	Easy pre and post assertions.	0.1	⊗
<input type="checkbox"/>	backports	Reimplementations of Functions Introduced Since R-3.0.0	1.0.5	⊗
<input type="checkbox"/>	base64enc	Tools for base64 encoding	0.1-3	⊗
<input type="checkbox"/>	BBmisc	Miscellaneous Helper Functions for B. Bischl	1.10	⊗
<input type="checkbox"/>	bestglm	Best Subset GLM	0.34	⊗

