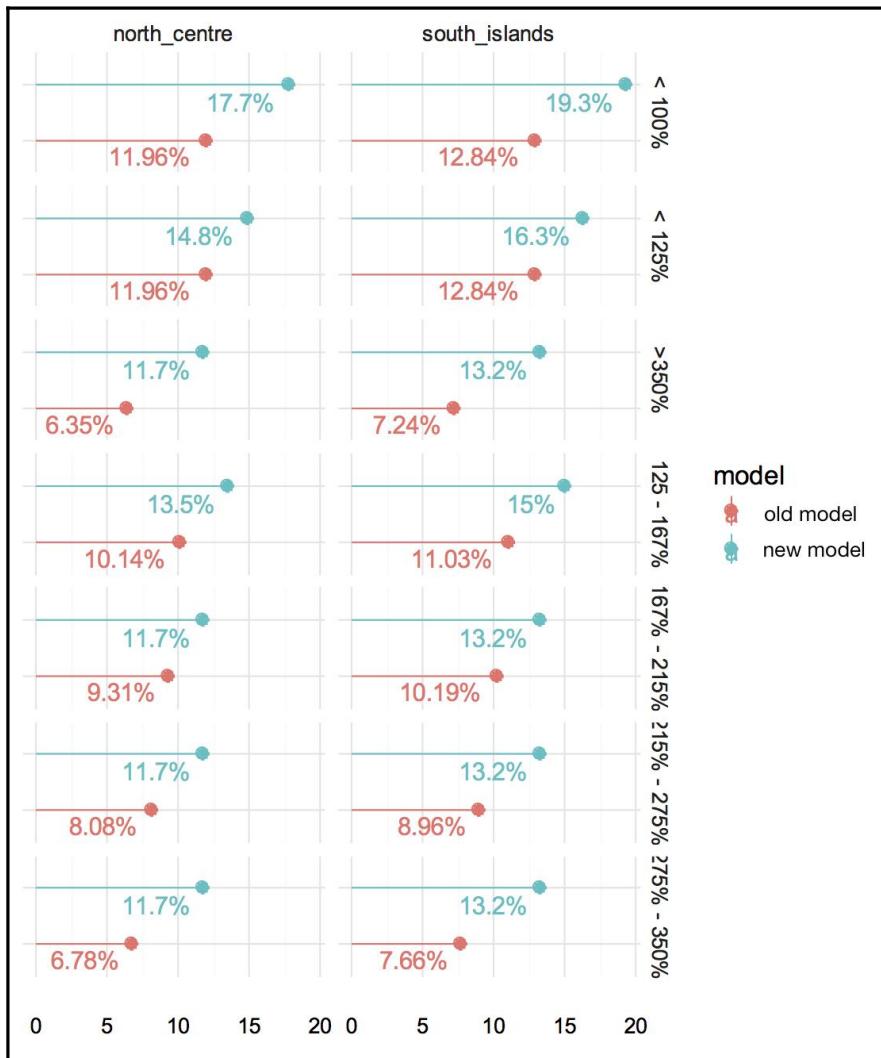


# Chapter 1: Why to Choose R for Your Data Mining and Where to Start



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.

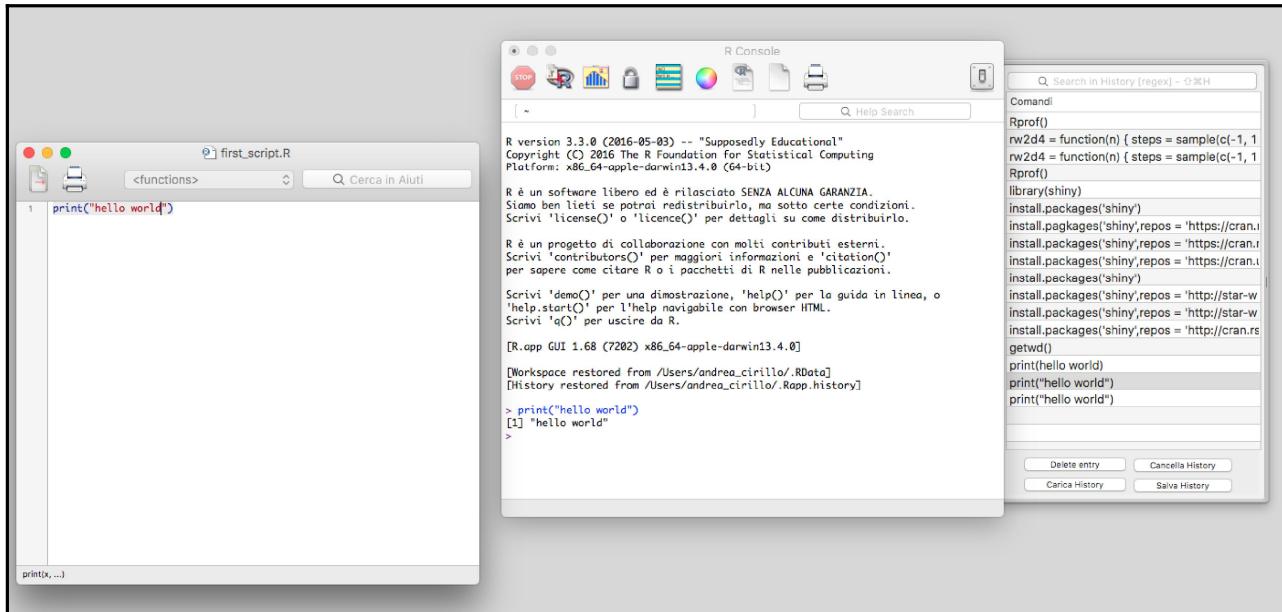
### Source Code for all Platforms

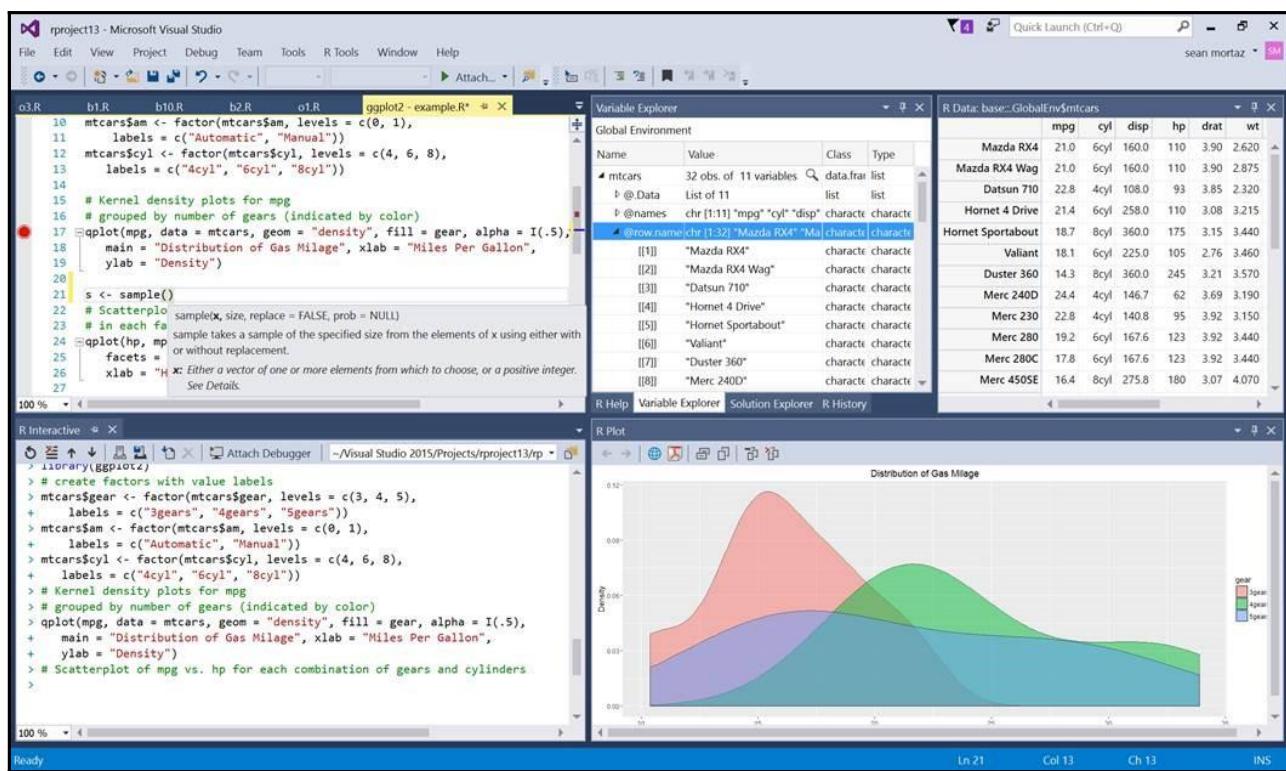
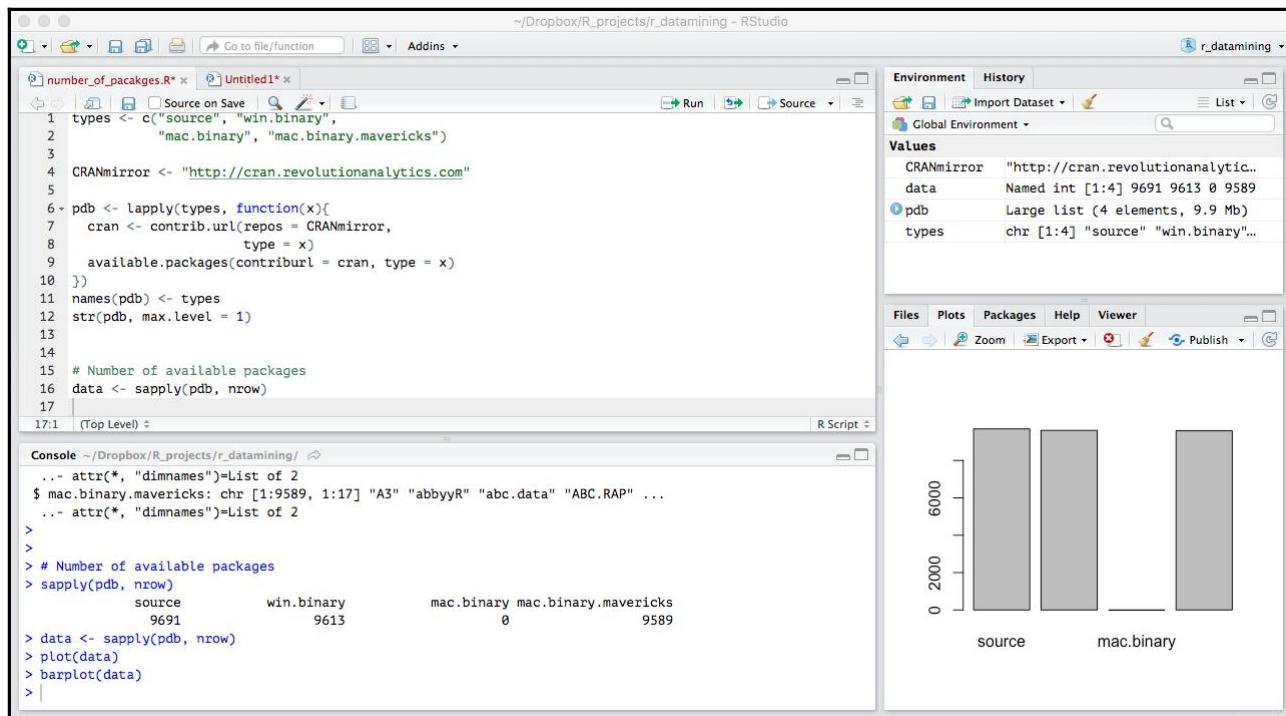
Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

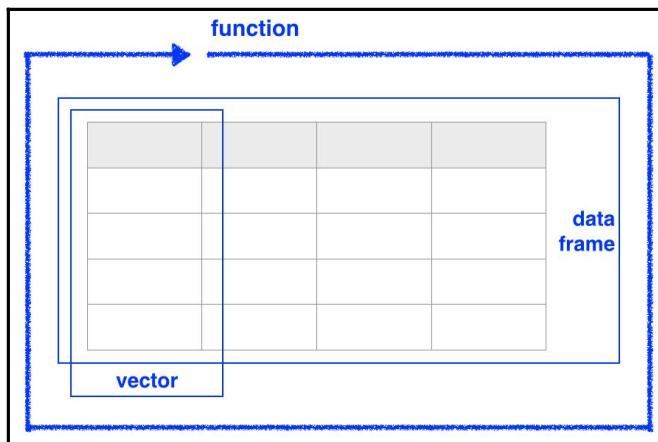
- The latest release (Monday 2016-10-31, Sincere Pumpkin Patch) [R-3.3.2.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

### Questions About R

- 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.







Console ~/ ↗

```

> demo()
> demo(scoping)

demo(scoping)
-----
Type <Return> to start :

> ## Here is a little example which shows a fundamental difference between
> ## R and S. It is a little example from Abelson and Sussman which models
> ## the way in which bank accounts work.      It shows how R functions can
> ## encapsulate state information.
> ##
> ## When invoked, "open.account" defines and returns three functions

```

RStudio Source Editor

first\_r\_script.R ×

```

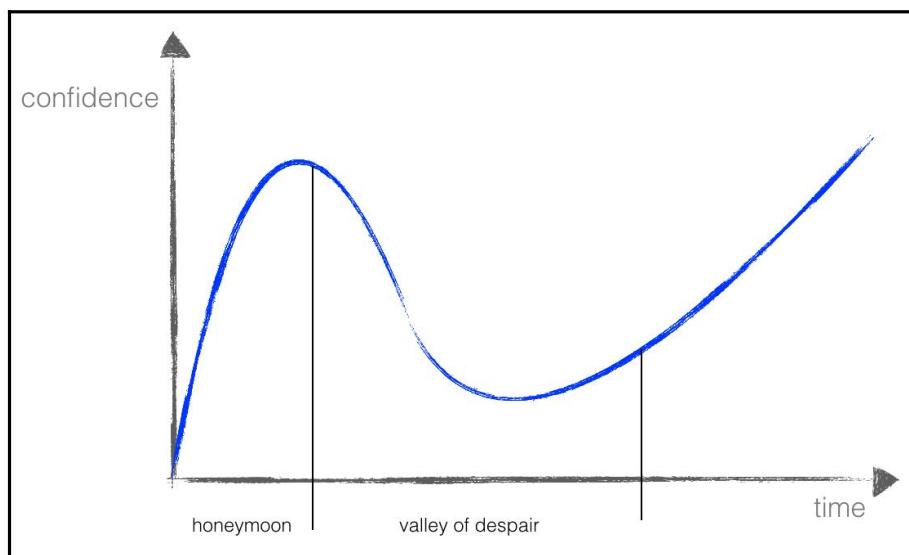
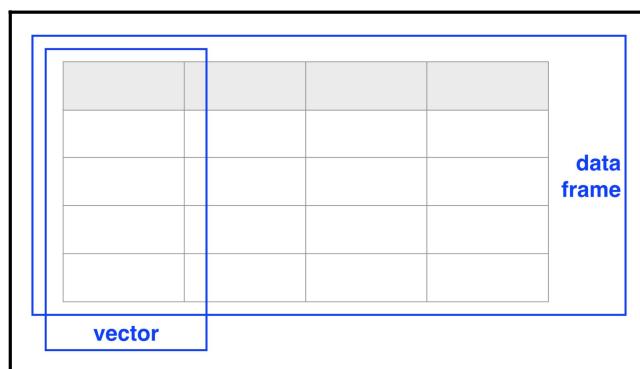
1 print("hello world")
2

```

2:1 (Top Level) R Script

---

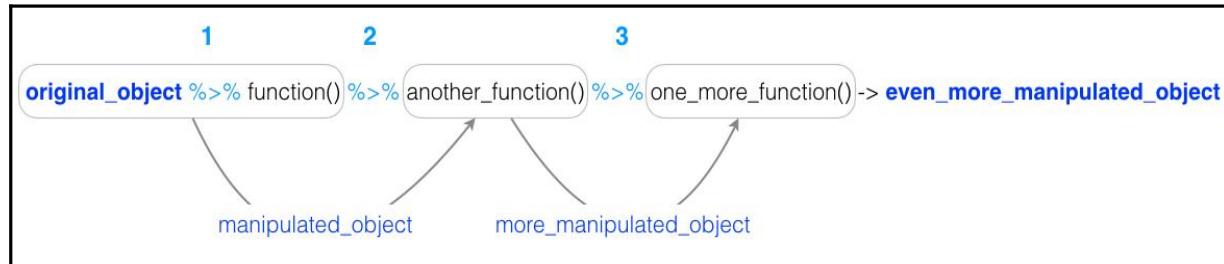
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20	100
40	90
15	40
90	15

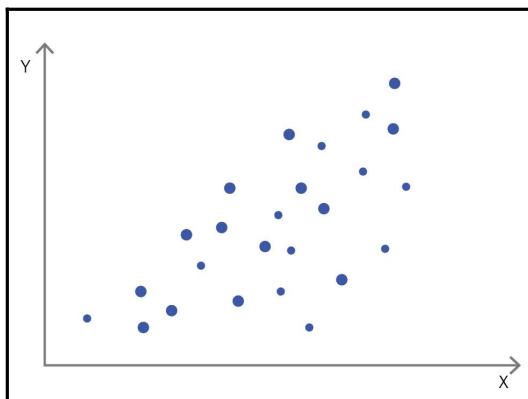
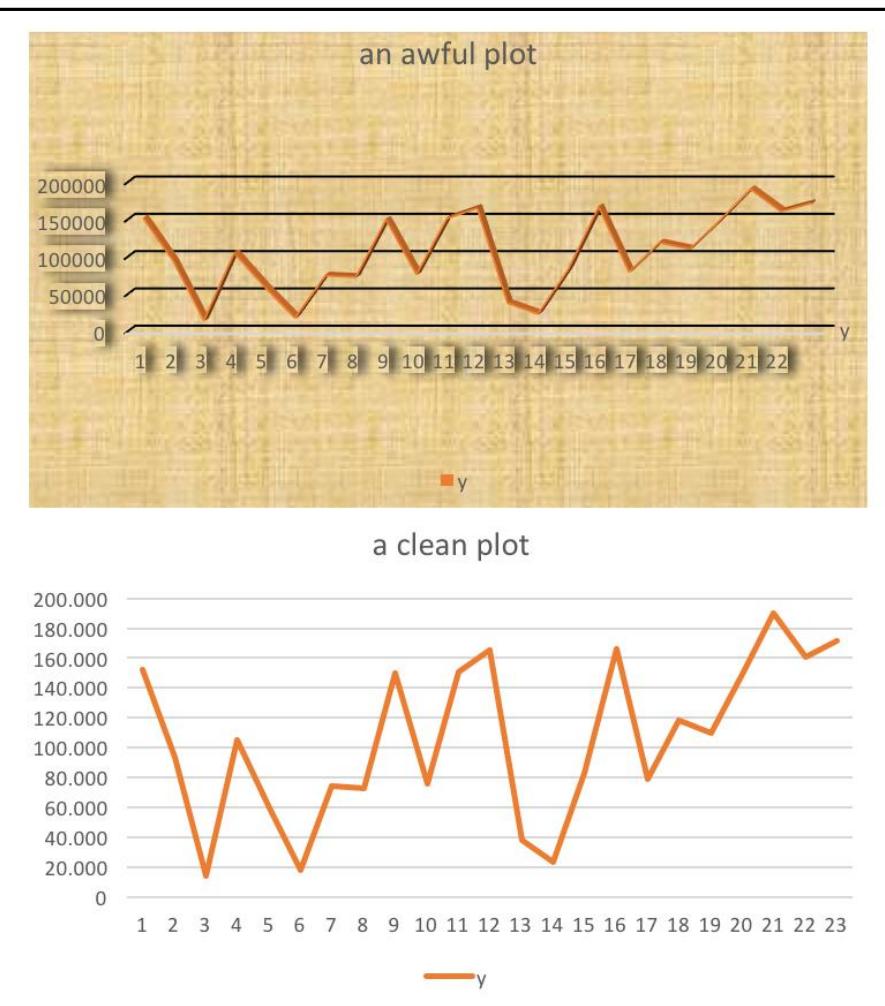


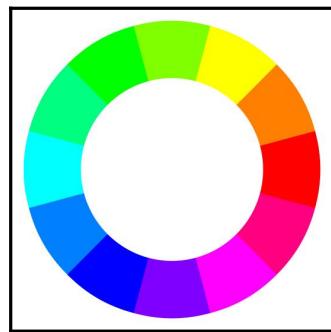
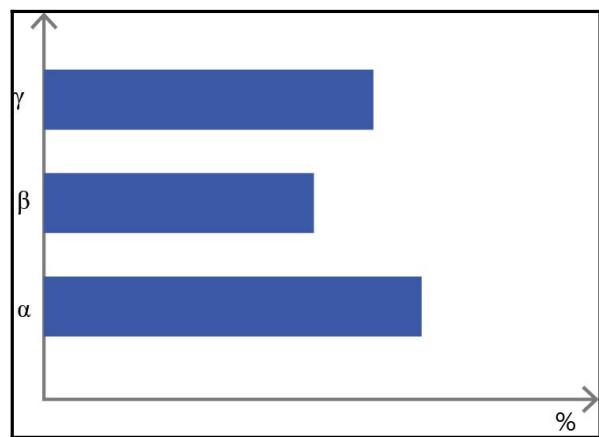
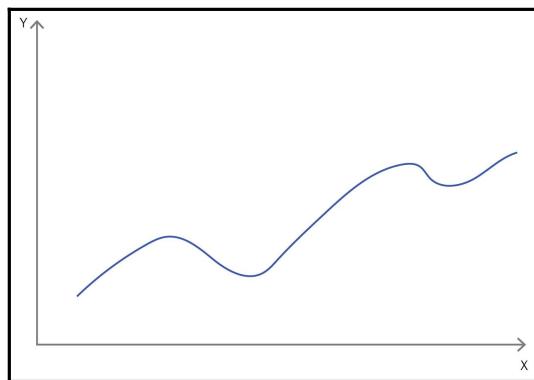
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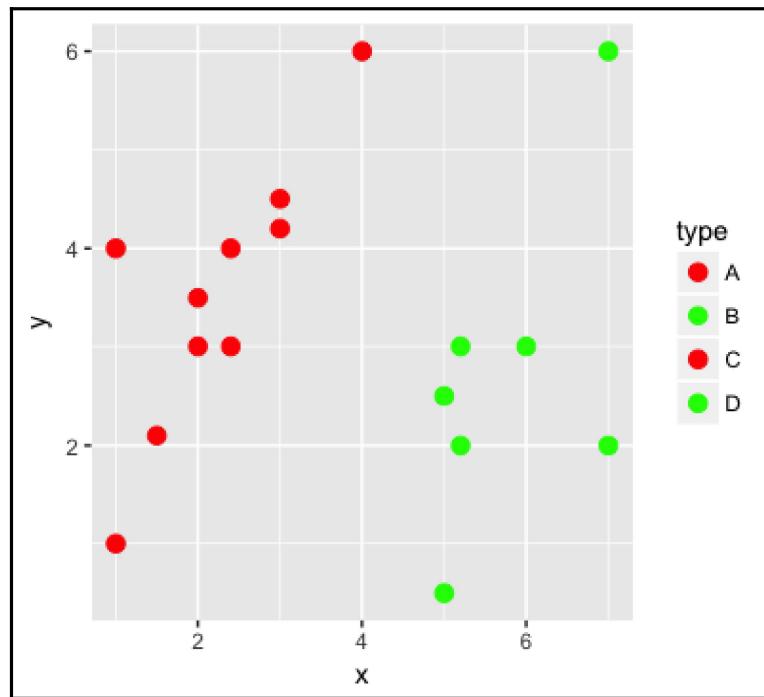
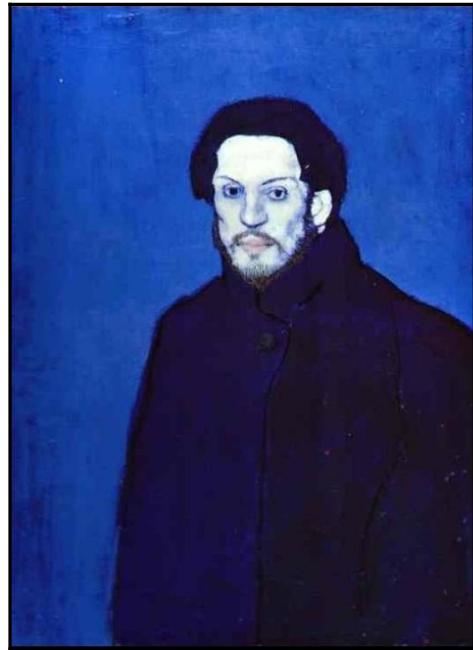
# Chapter 2: A First Primer on Data Mining

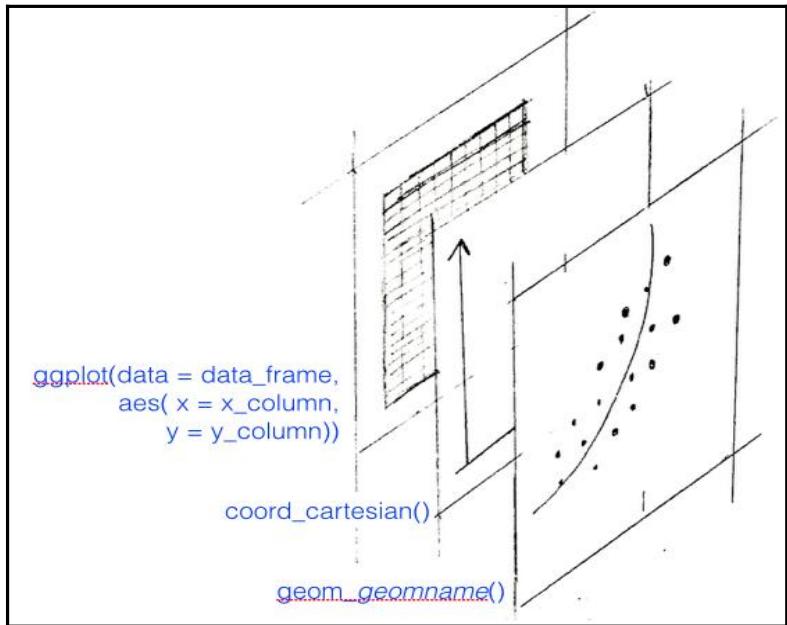
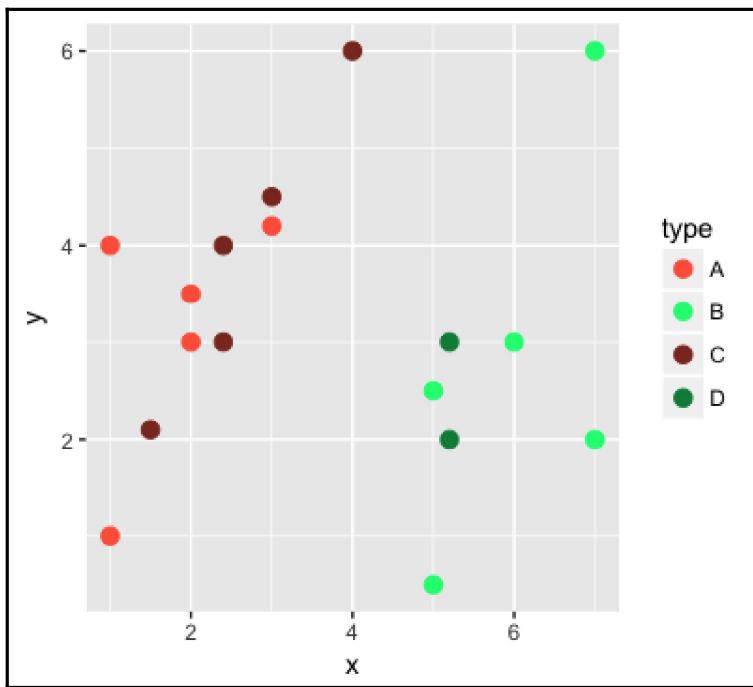
## Analysing Your Bank Account Data

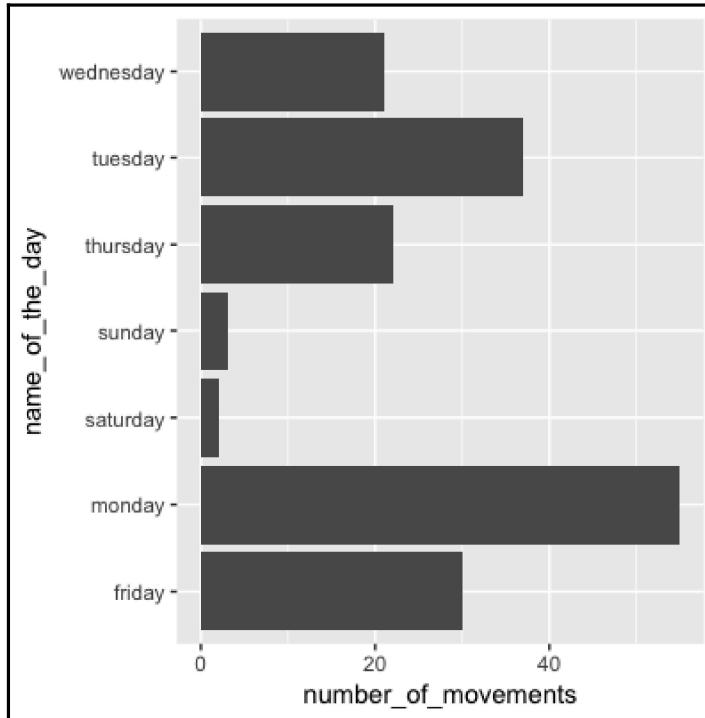
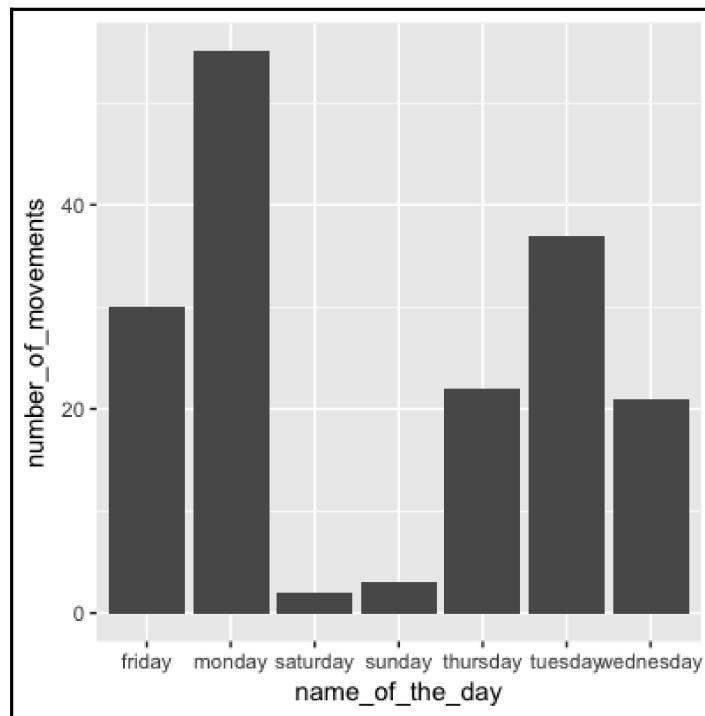


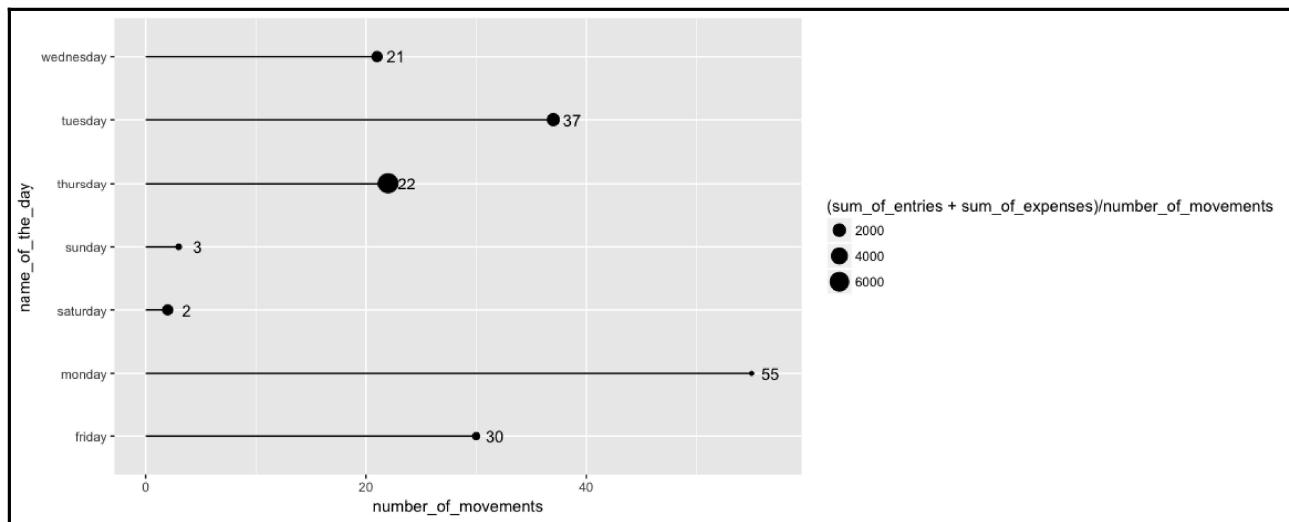






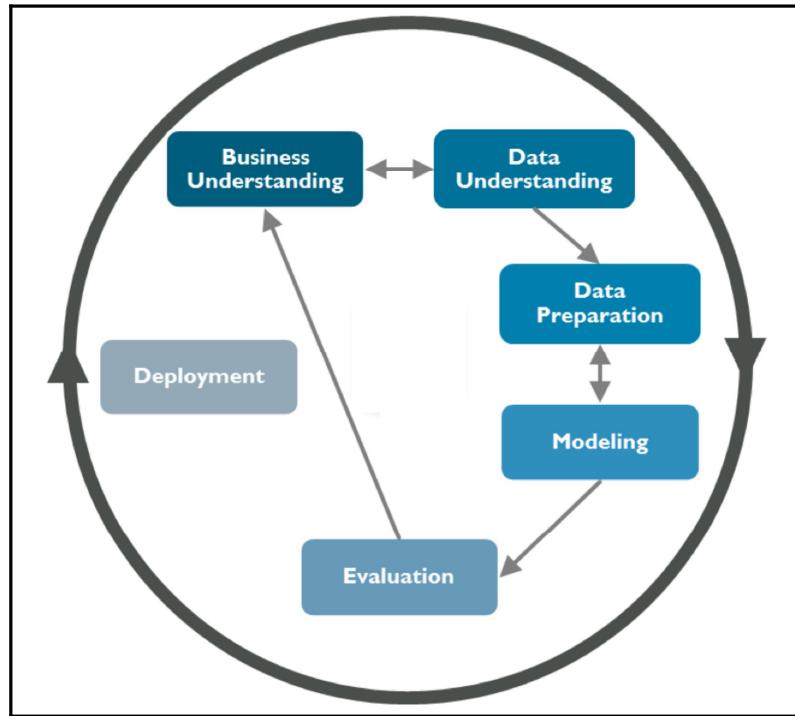


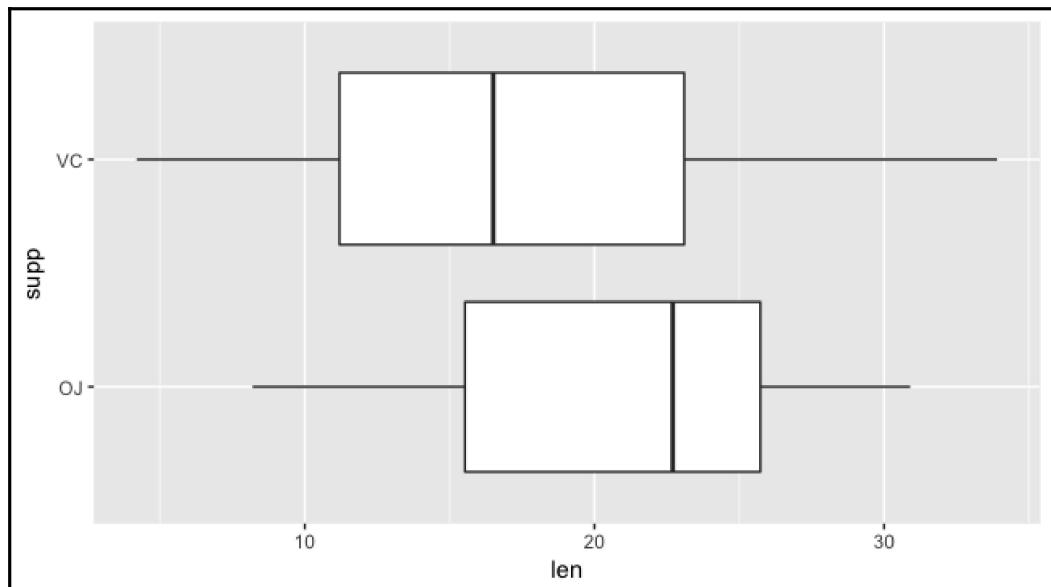
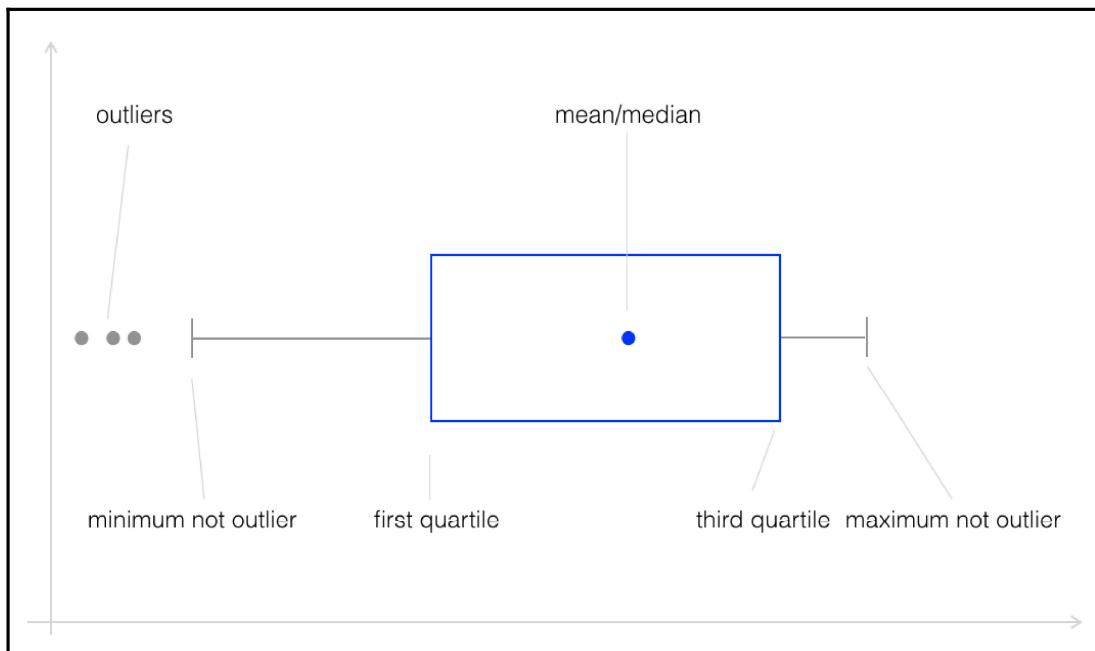


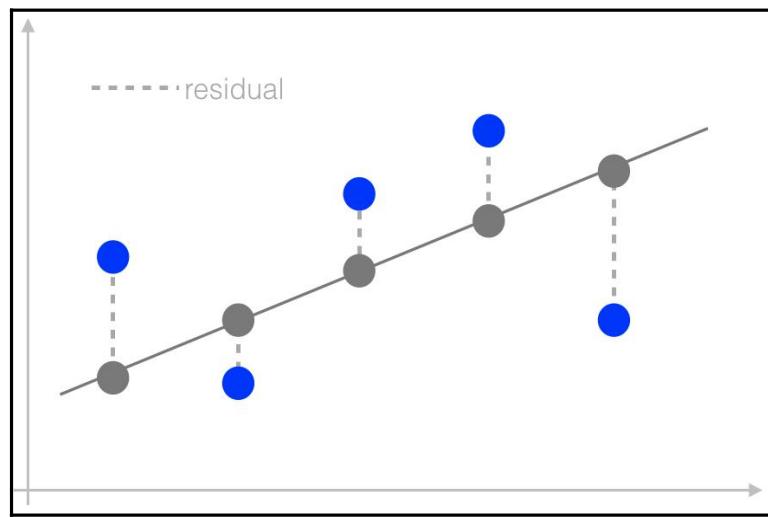
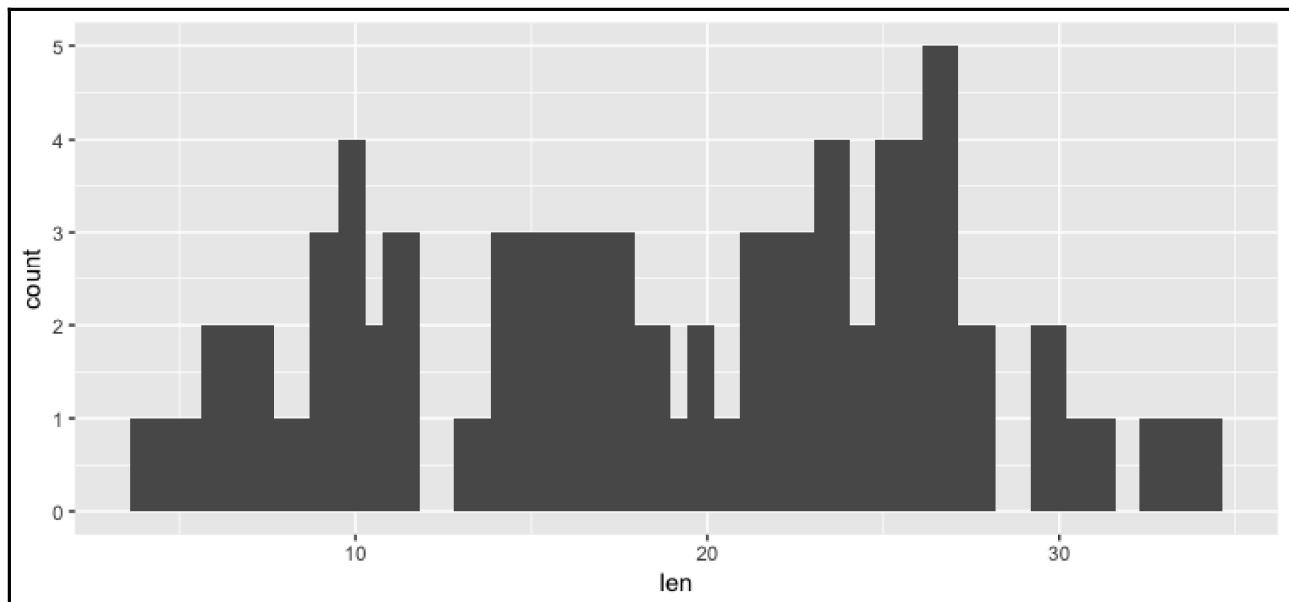


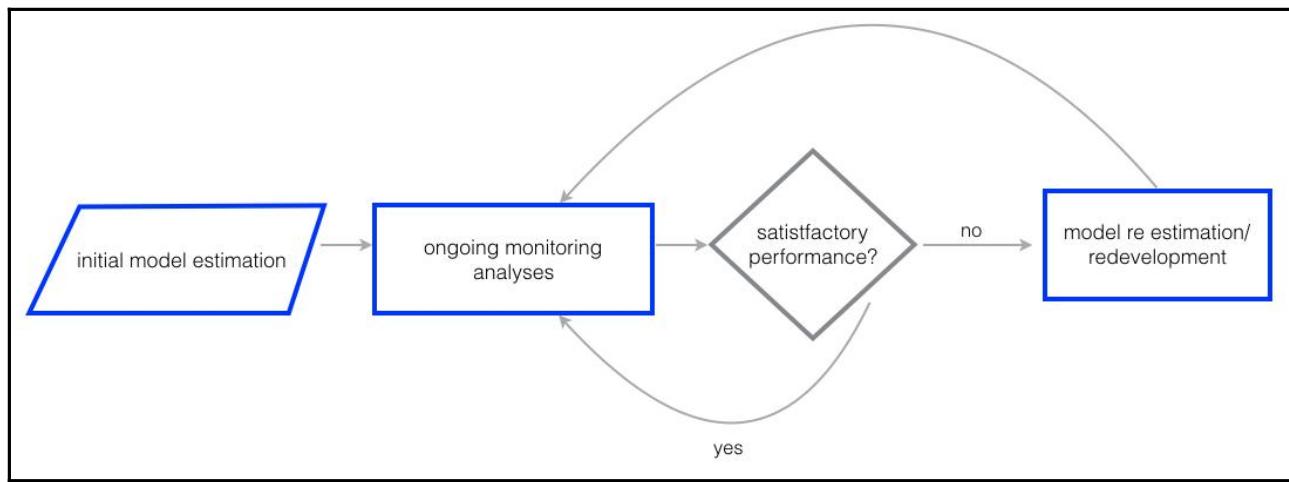
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## Chapter 3: The Data Mining Process - CRISP-DM Methodology



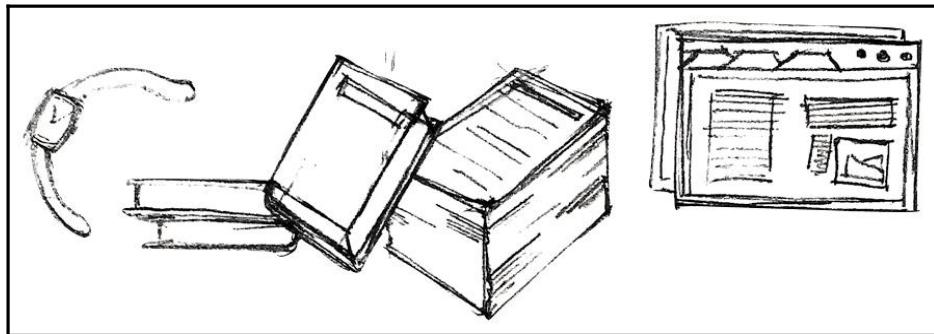
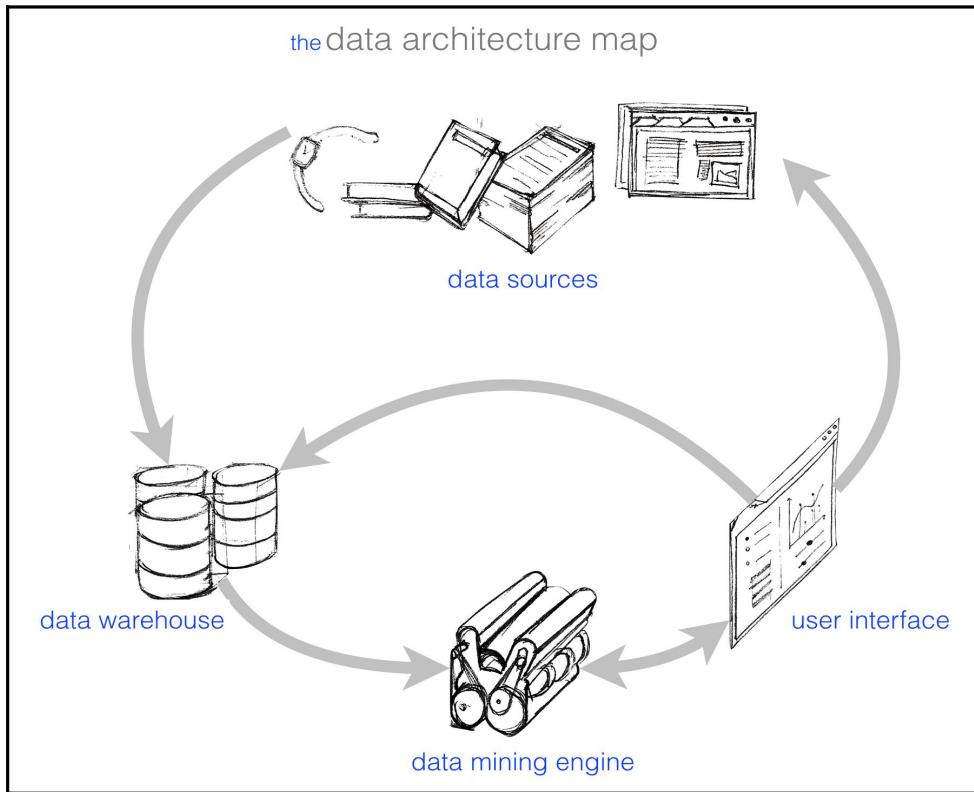


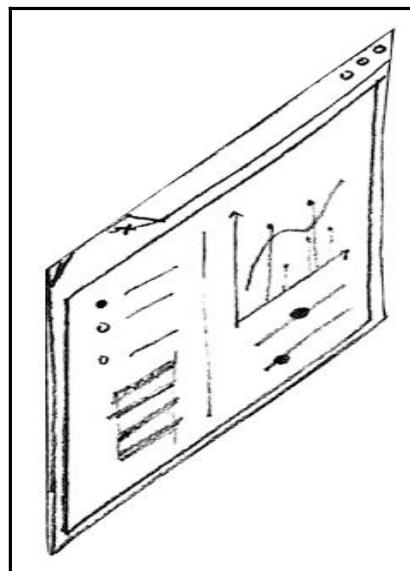
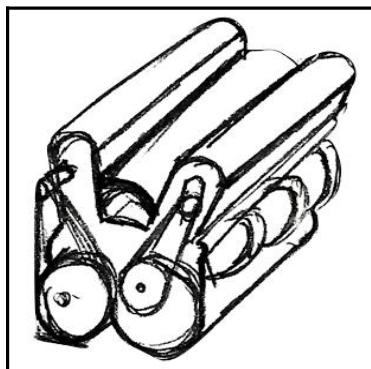
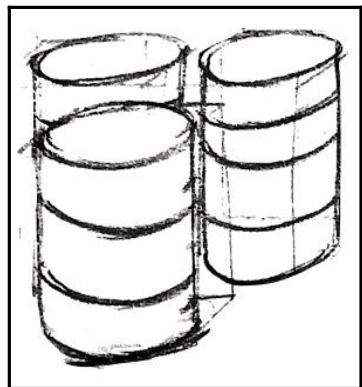




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## Chapter 4: Keeping the House Clean – The Data Mining Architecture

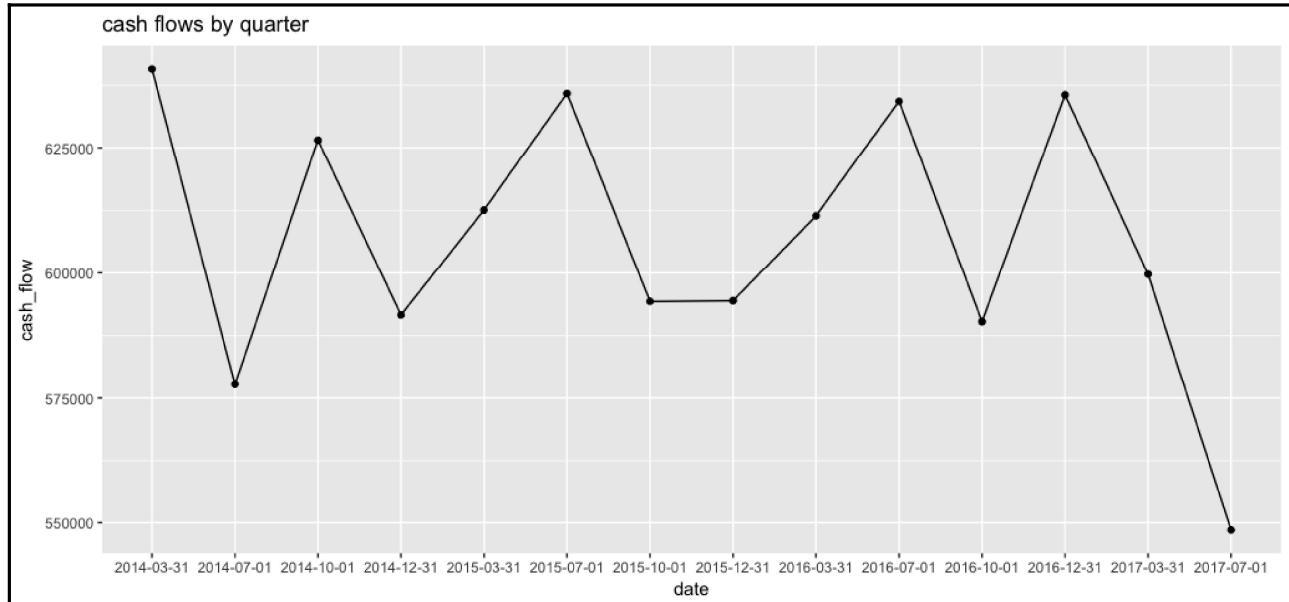






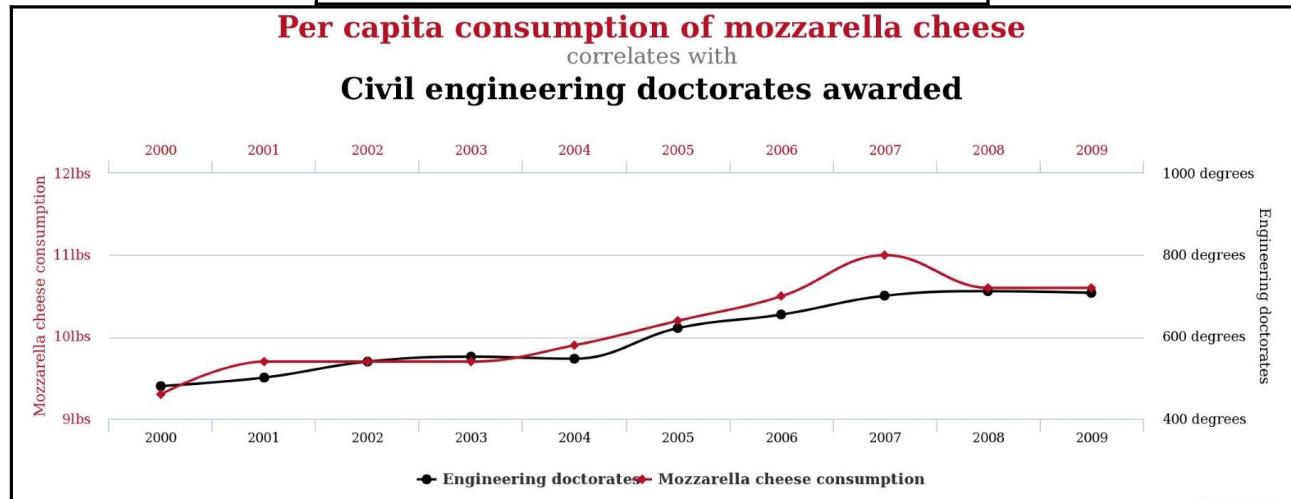
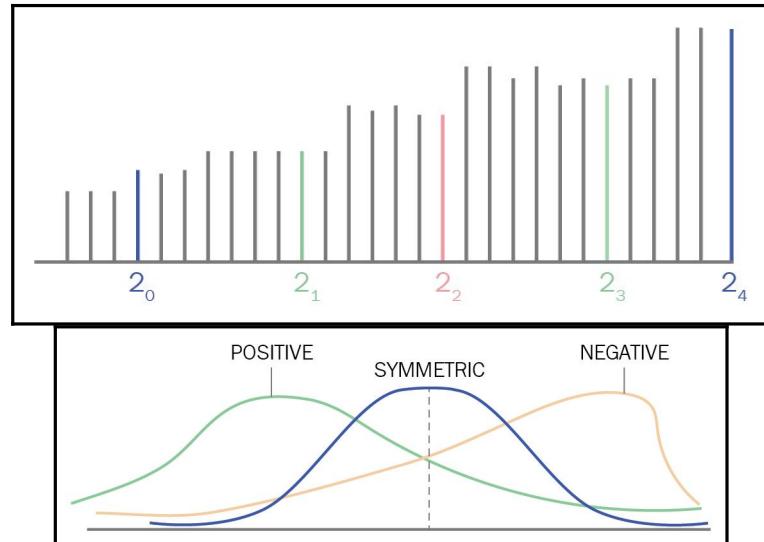
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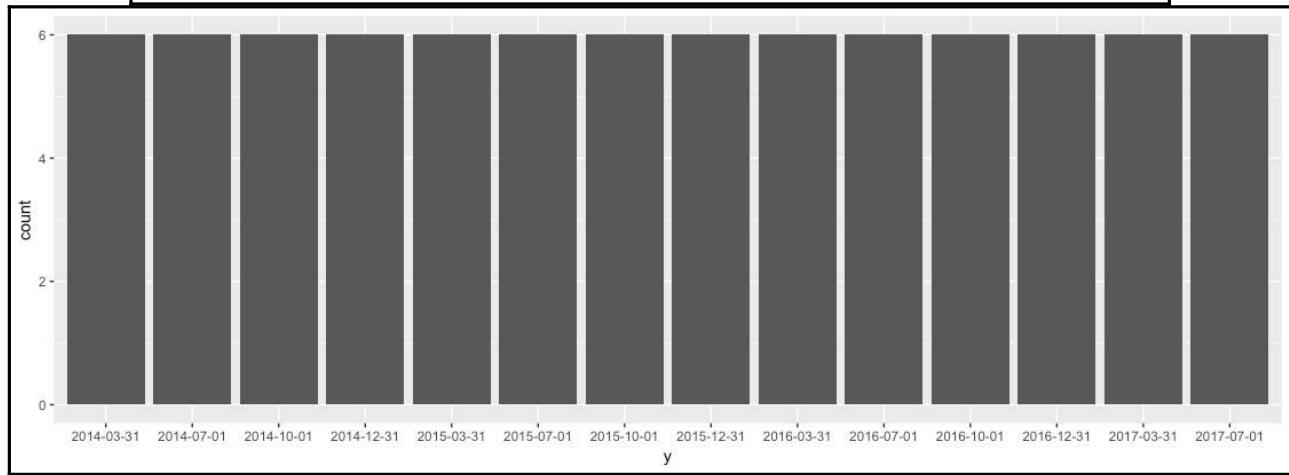
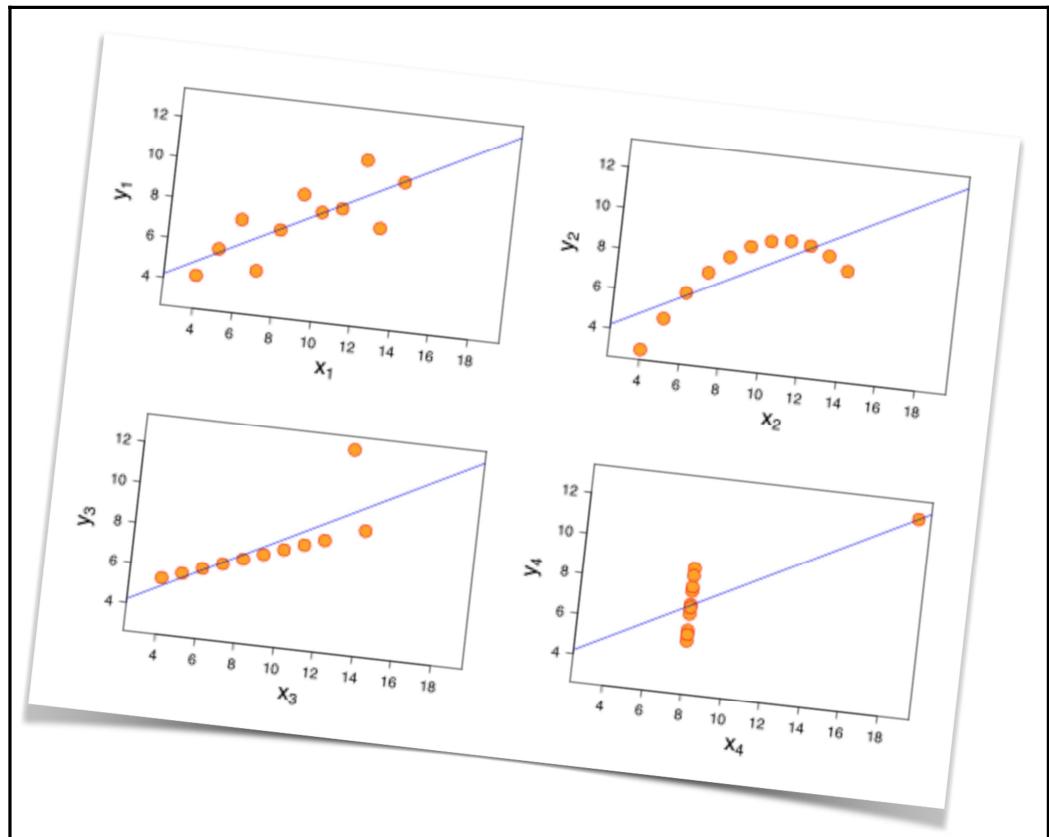
## Chapter 5: How to Address a Data Mining Problem – Data Cleaning and Validation

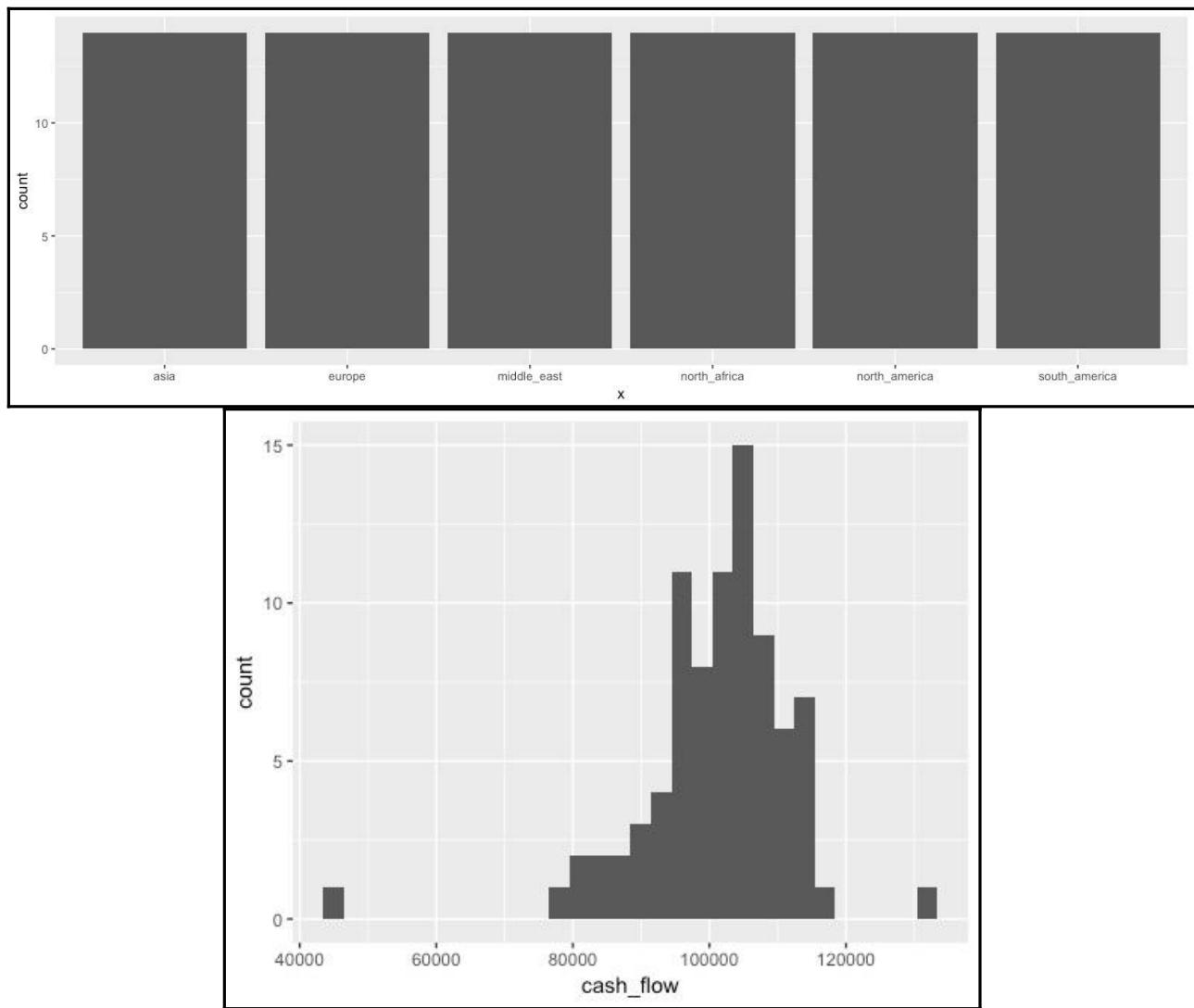


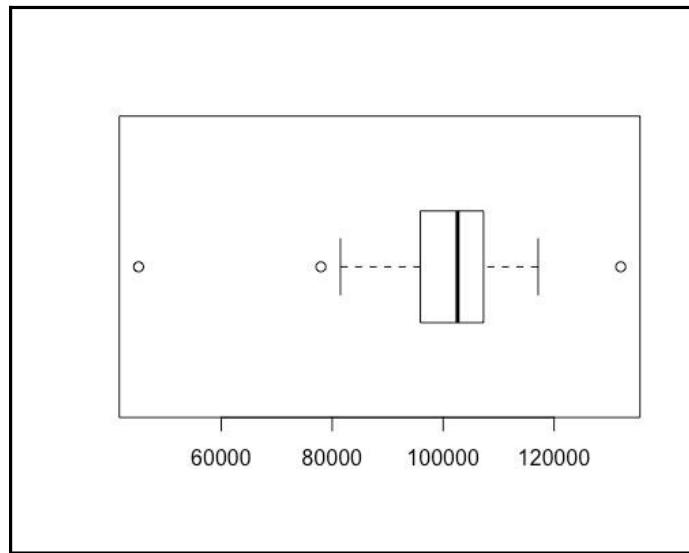
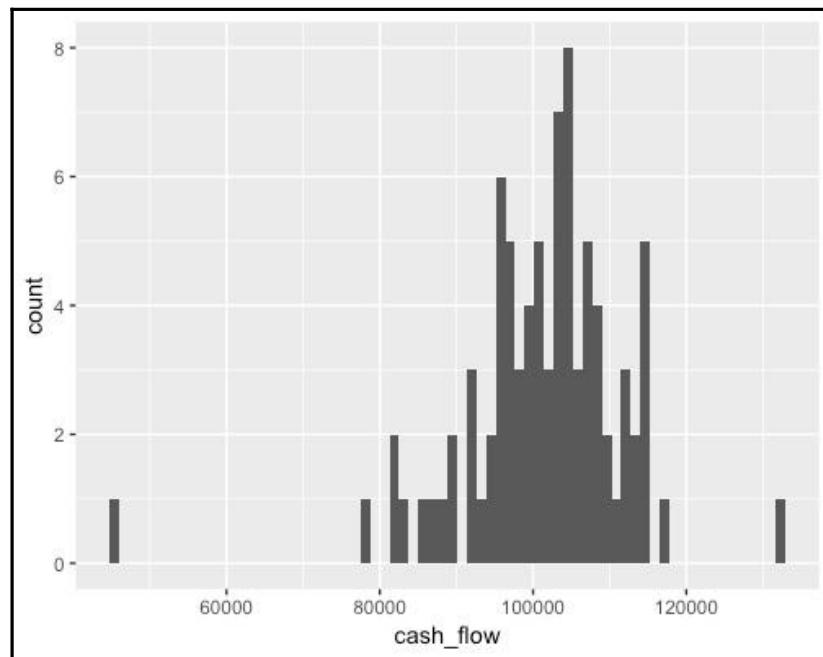
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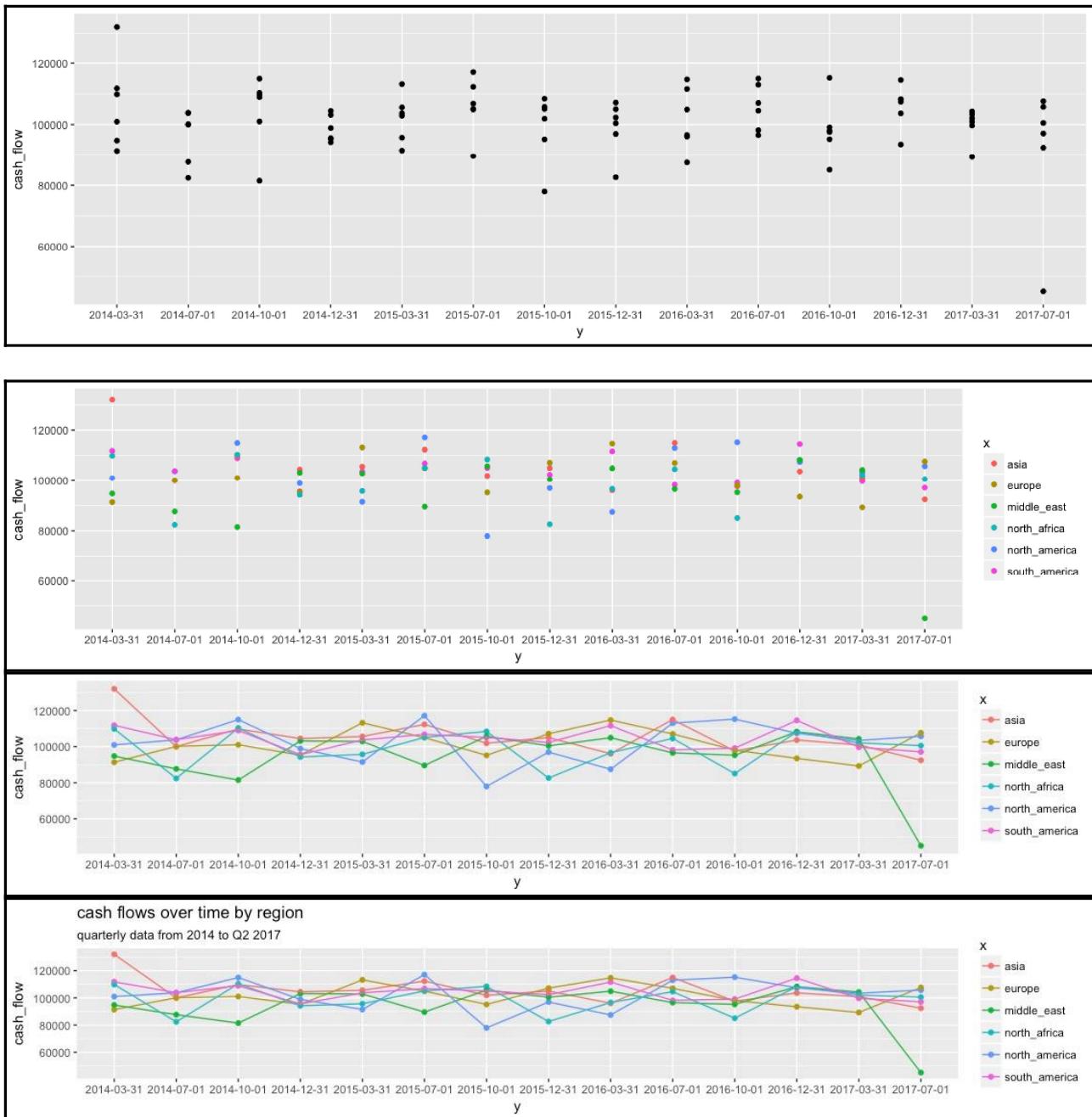
# Chapter 6: Looking into Your Data Eyes – Exploratory Data Analysis

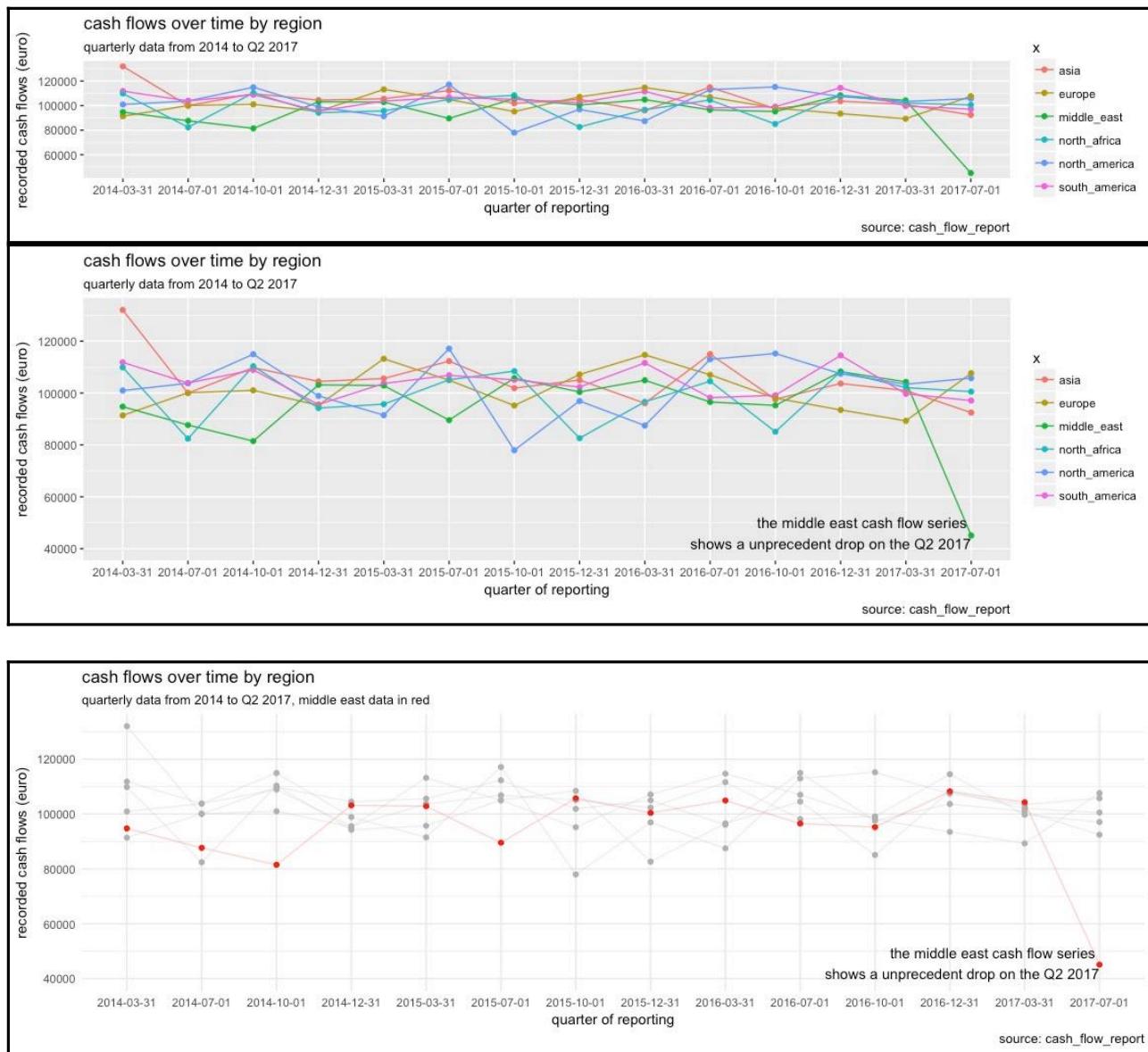






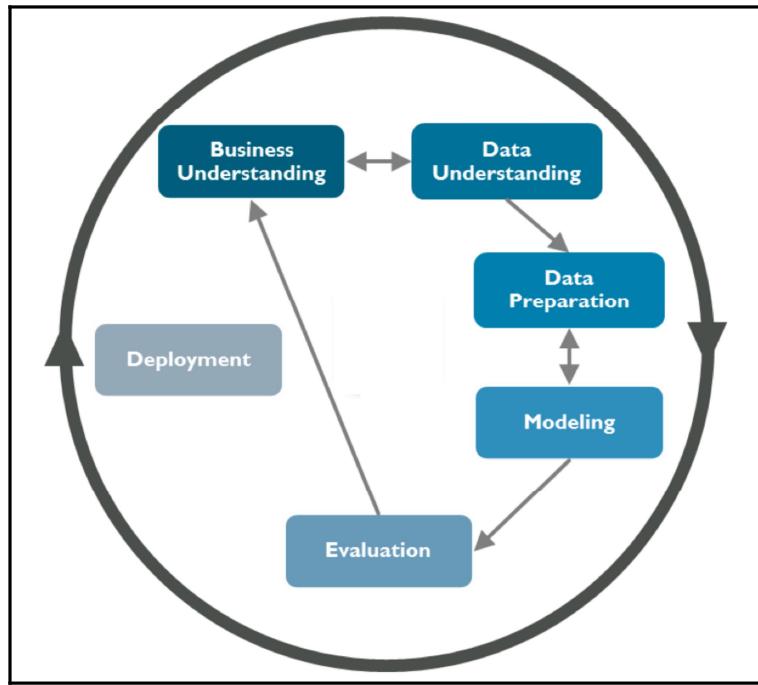


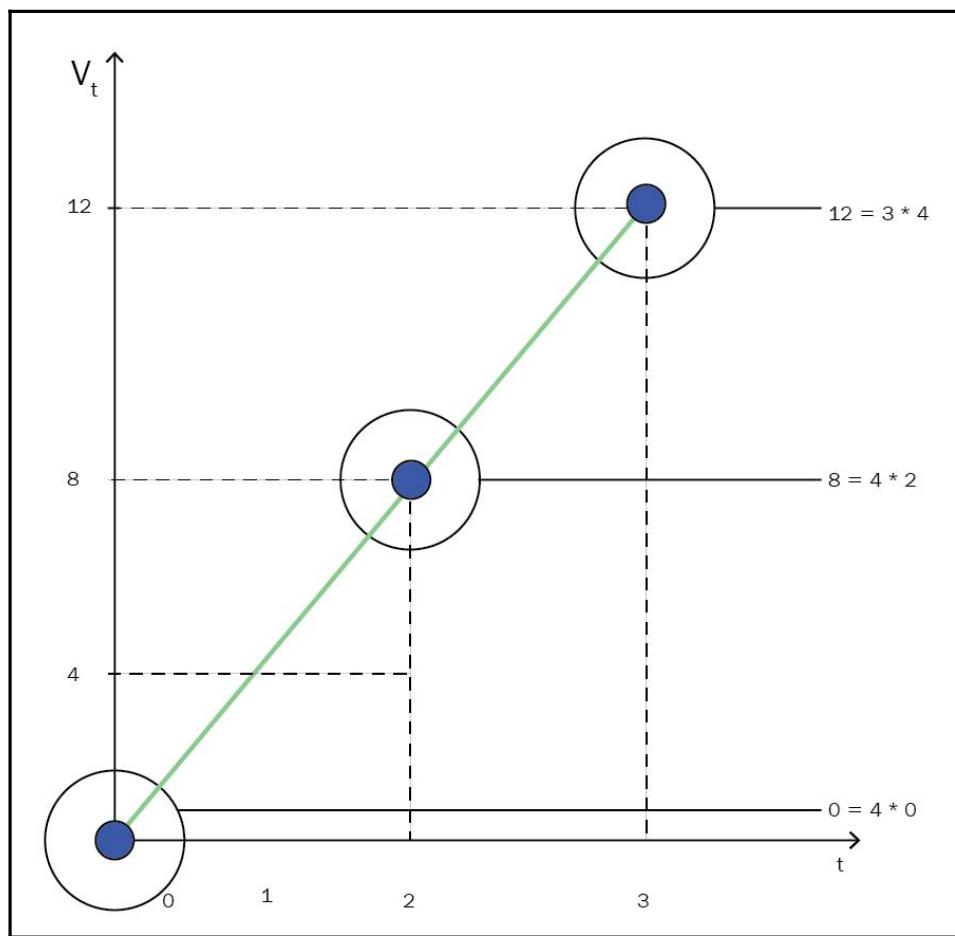


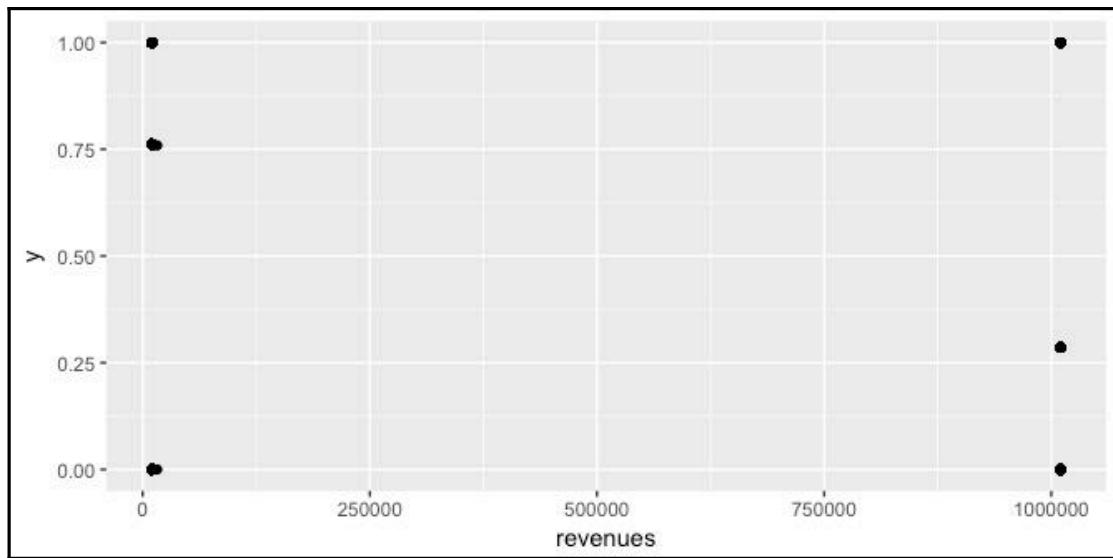
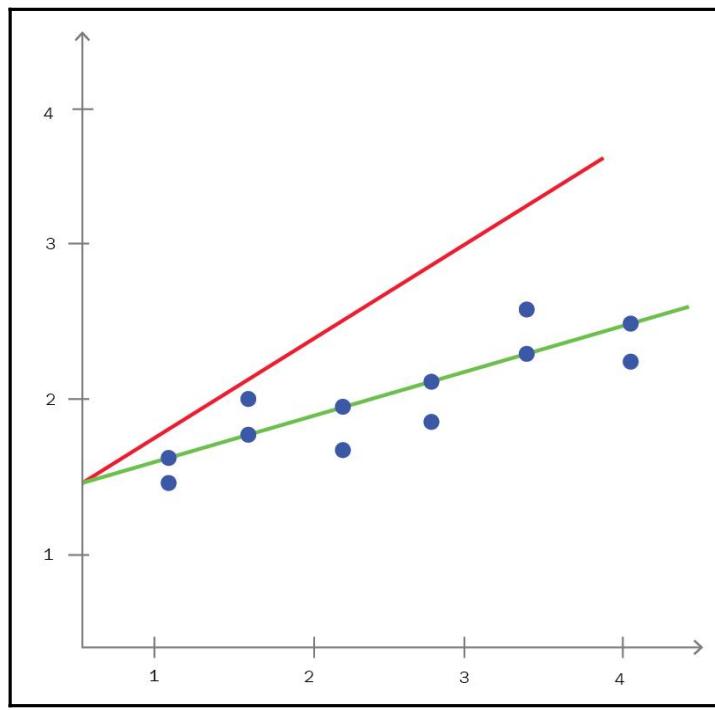


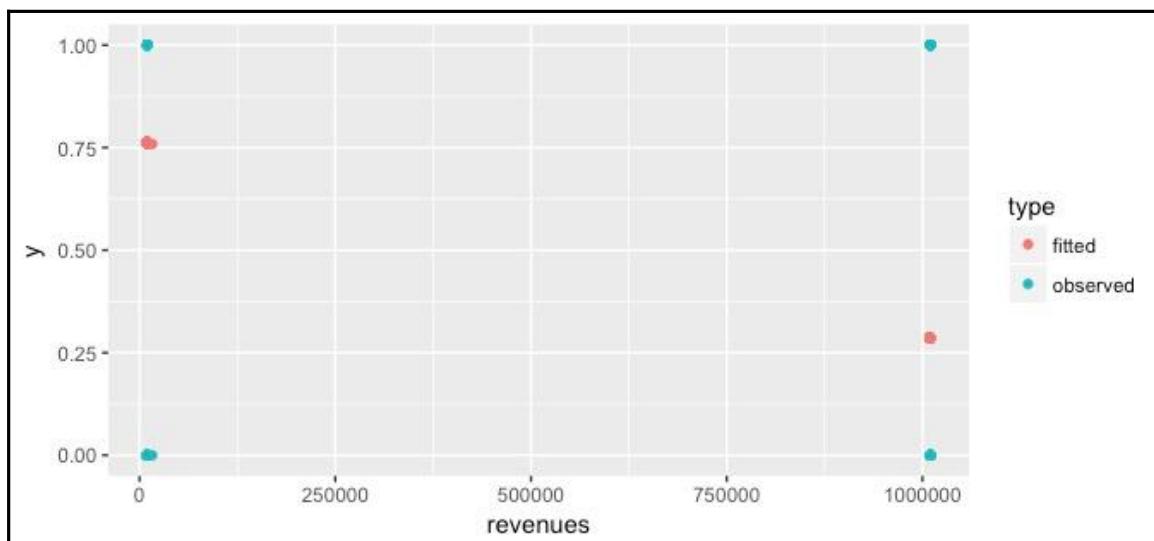
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# Chapter 7: Our First Guess – a Linear Regression



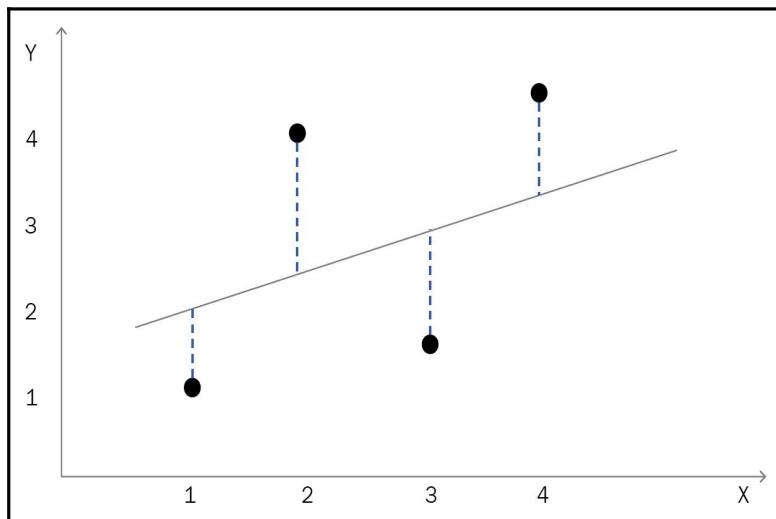
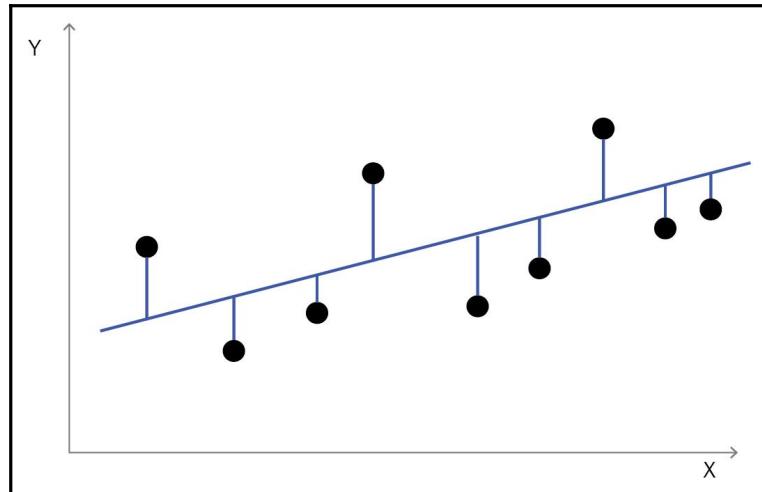


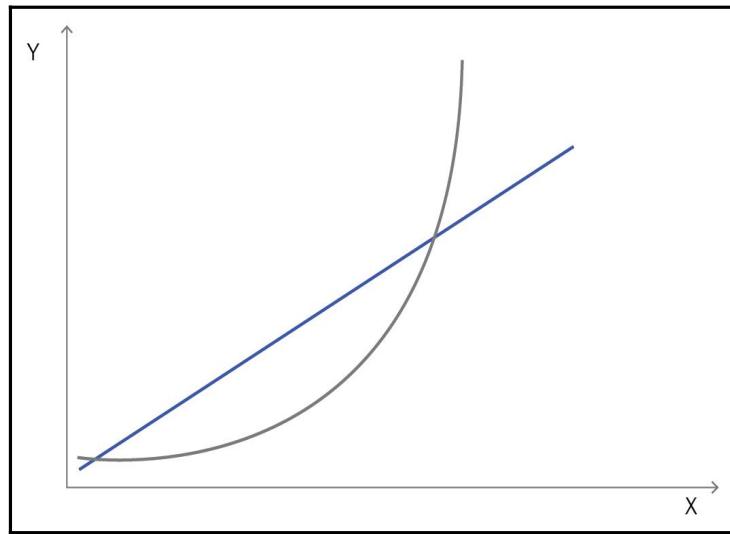
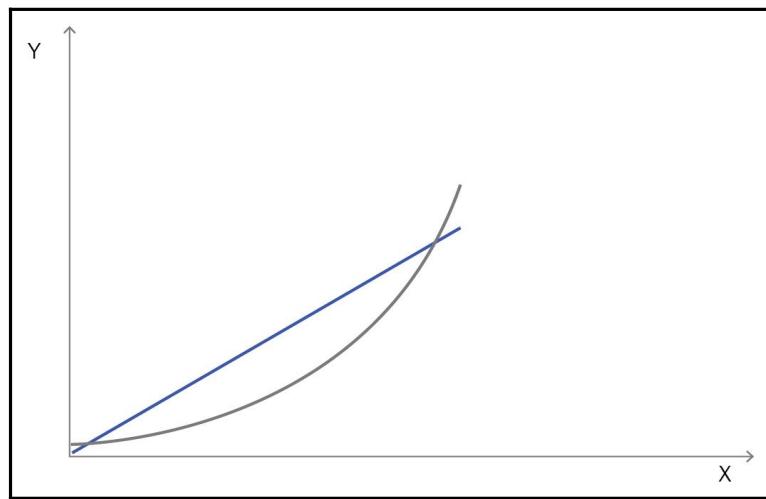




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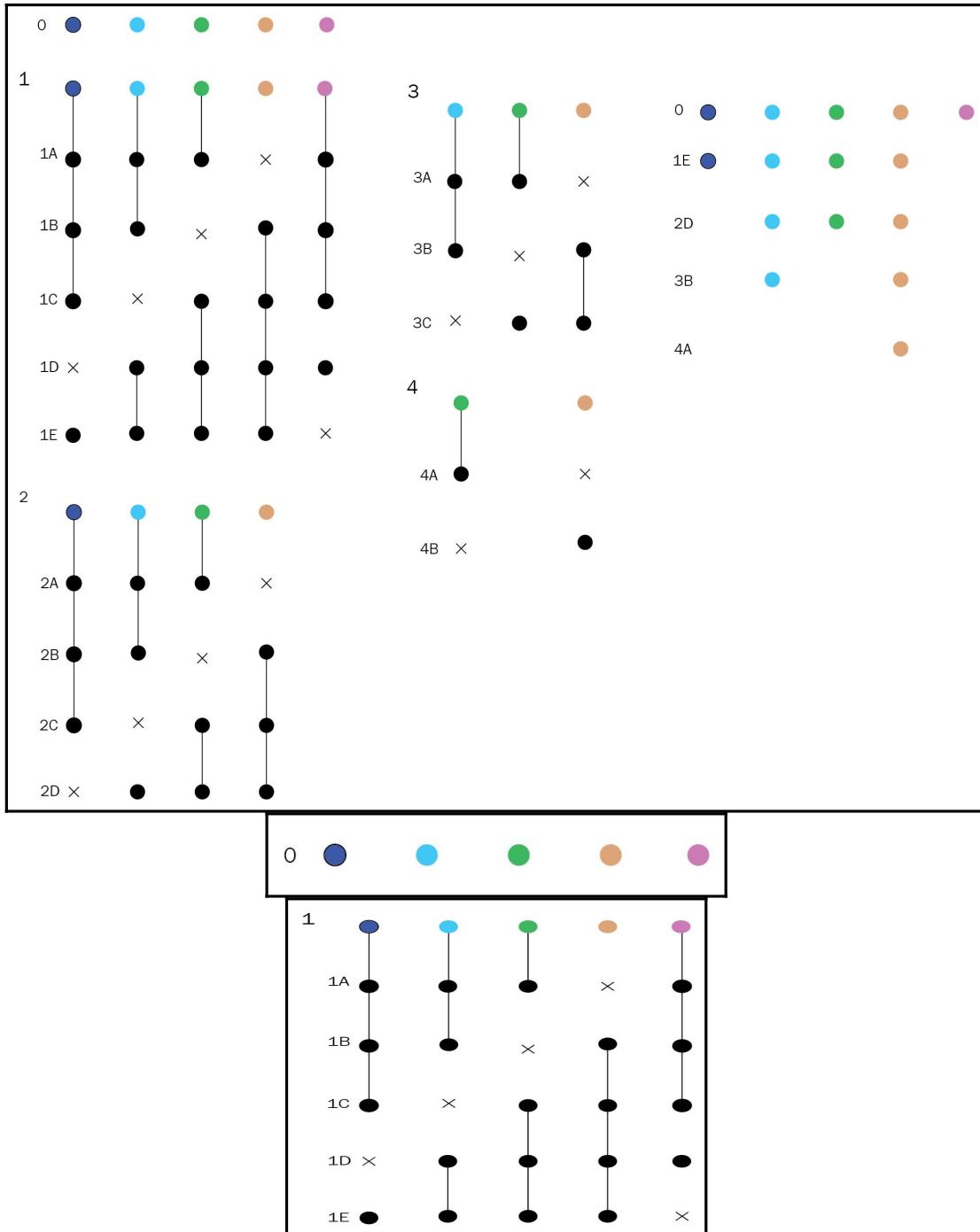
## Chapter 8: A Gentle Introduction to Model Performance Evaluation

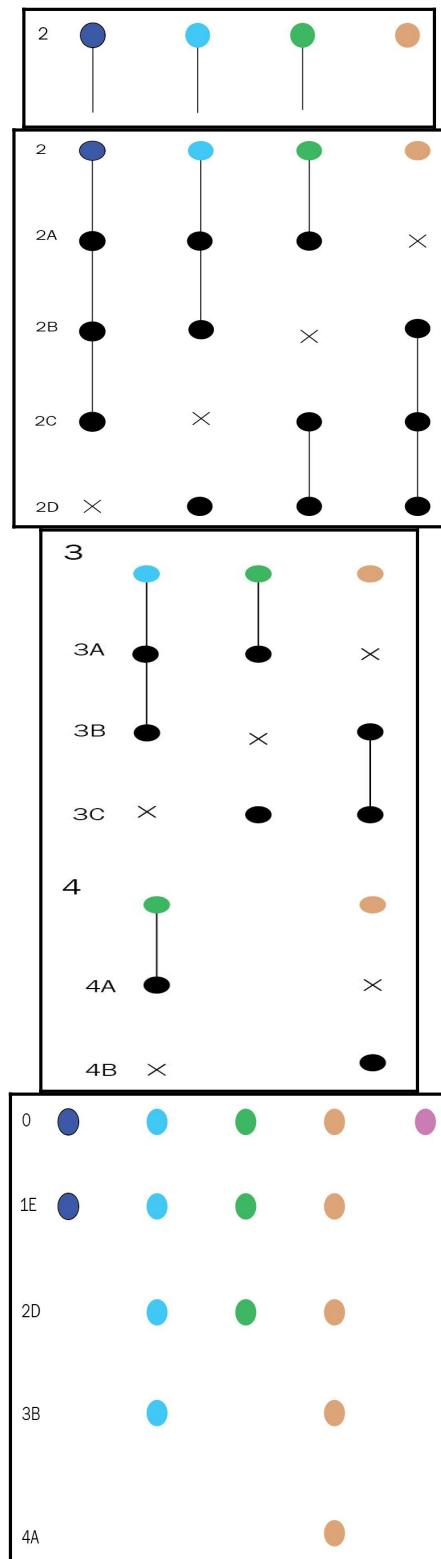


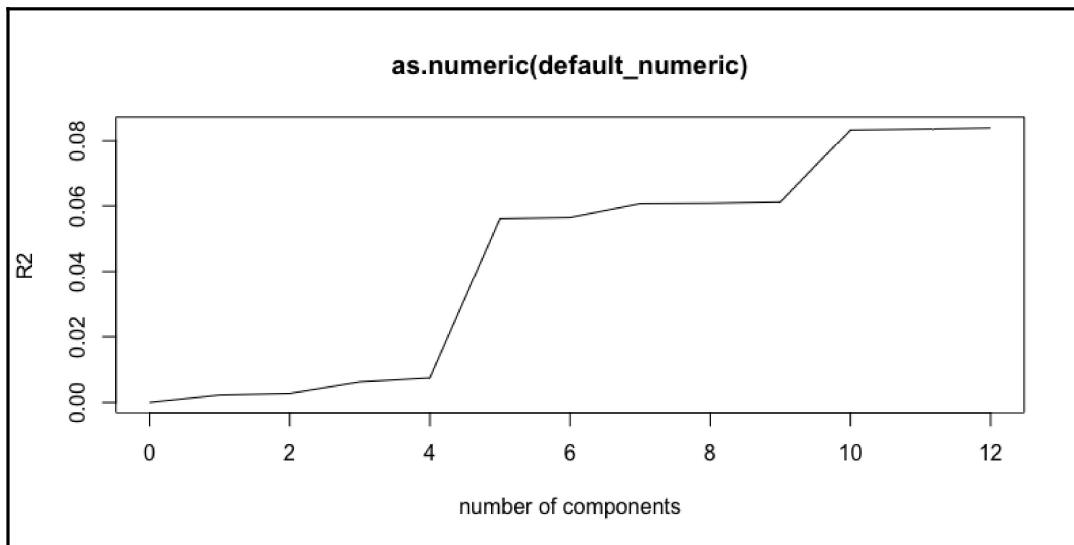
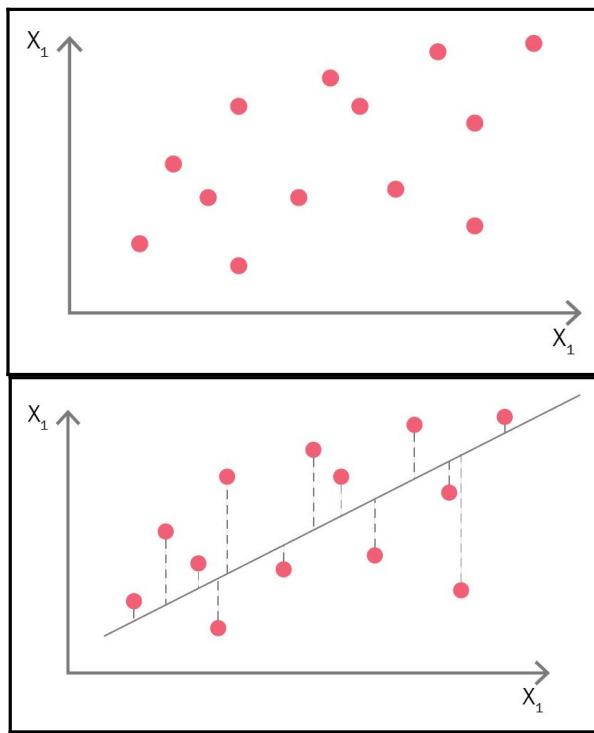


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## Chapter 9: Don't Give up – Power up Your Regression Including Multiple Variables

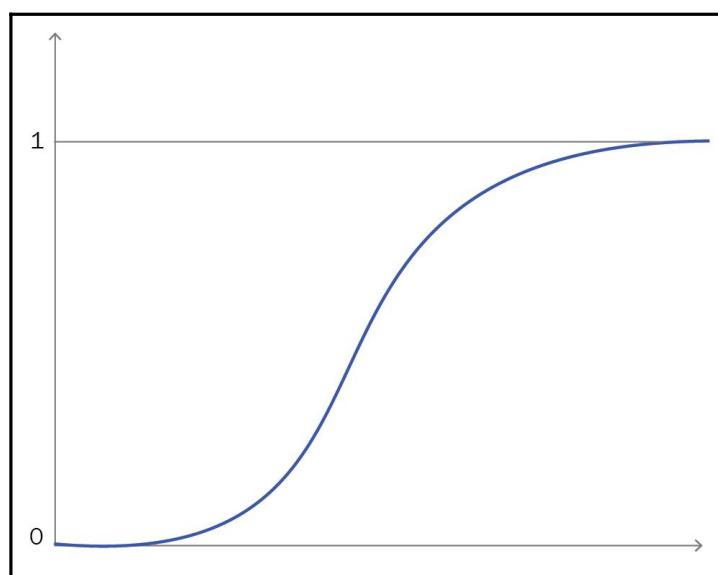


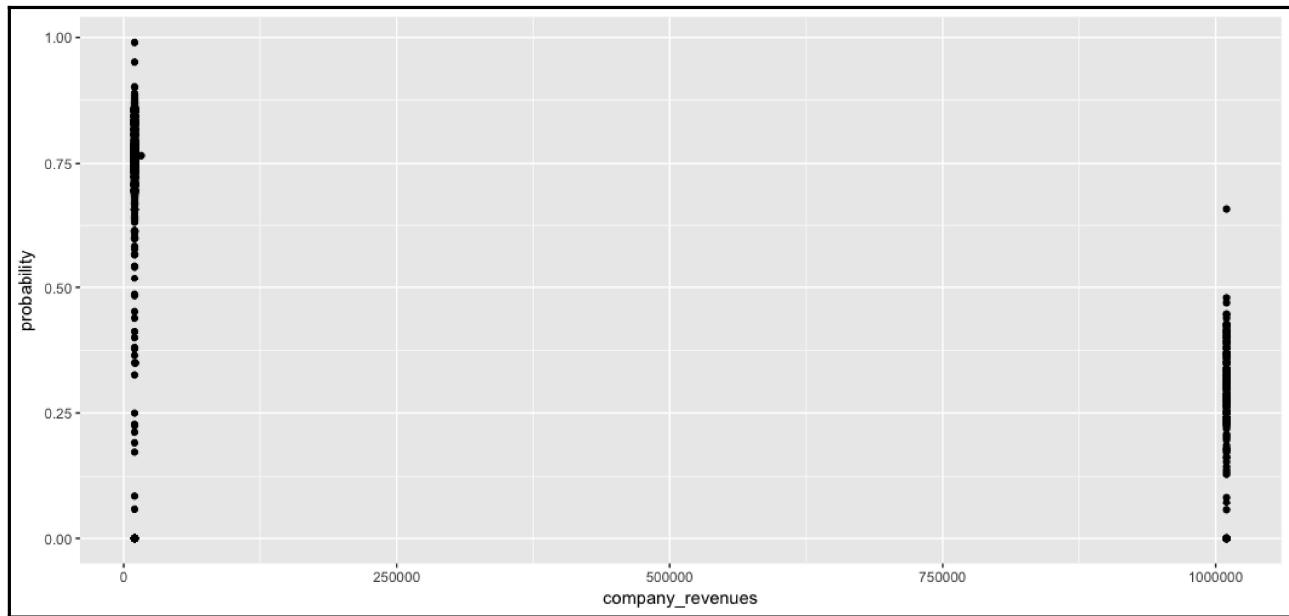
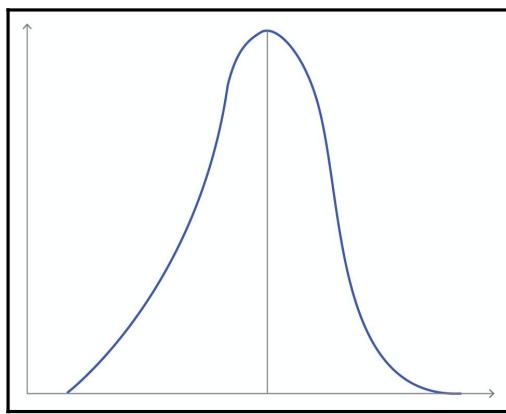
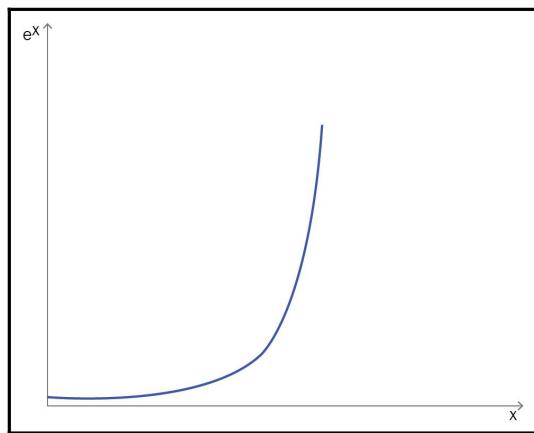


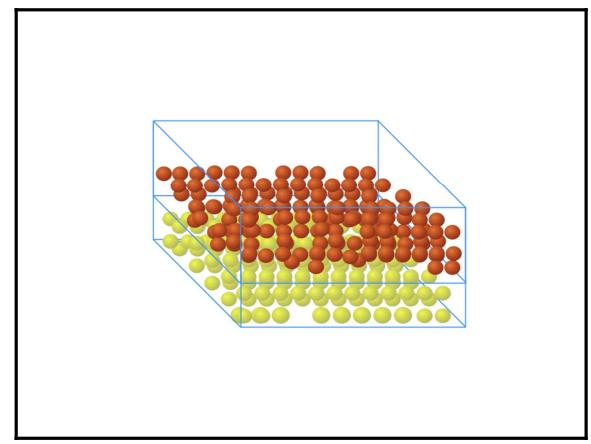
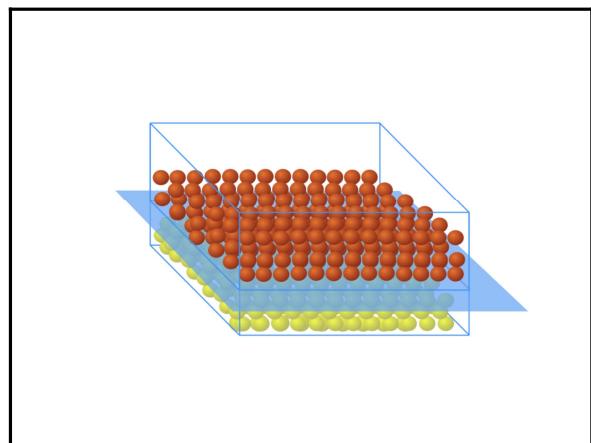
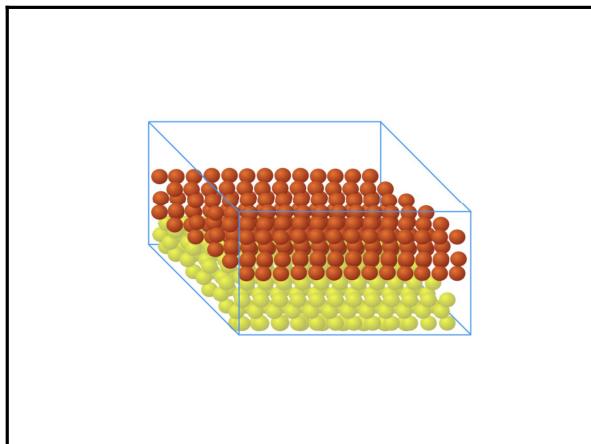


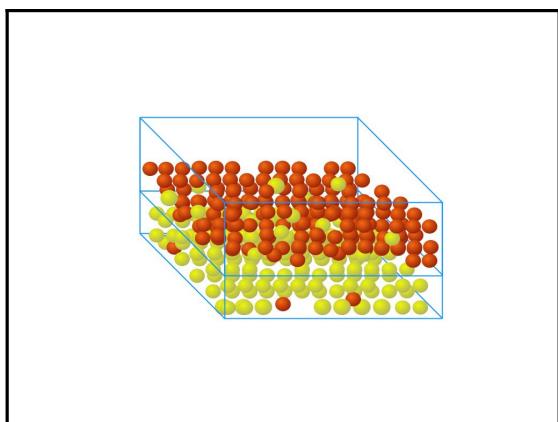
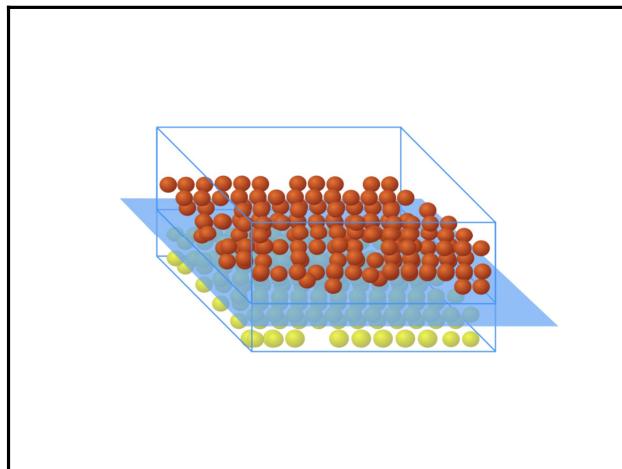
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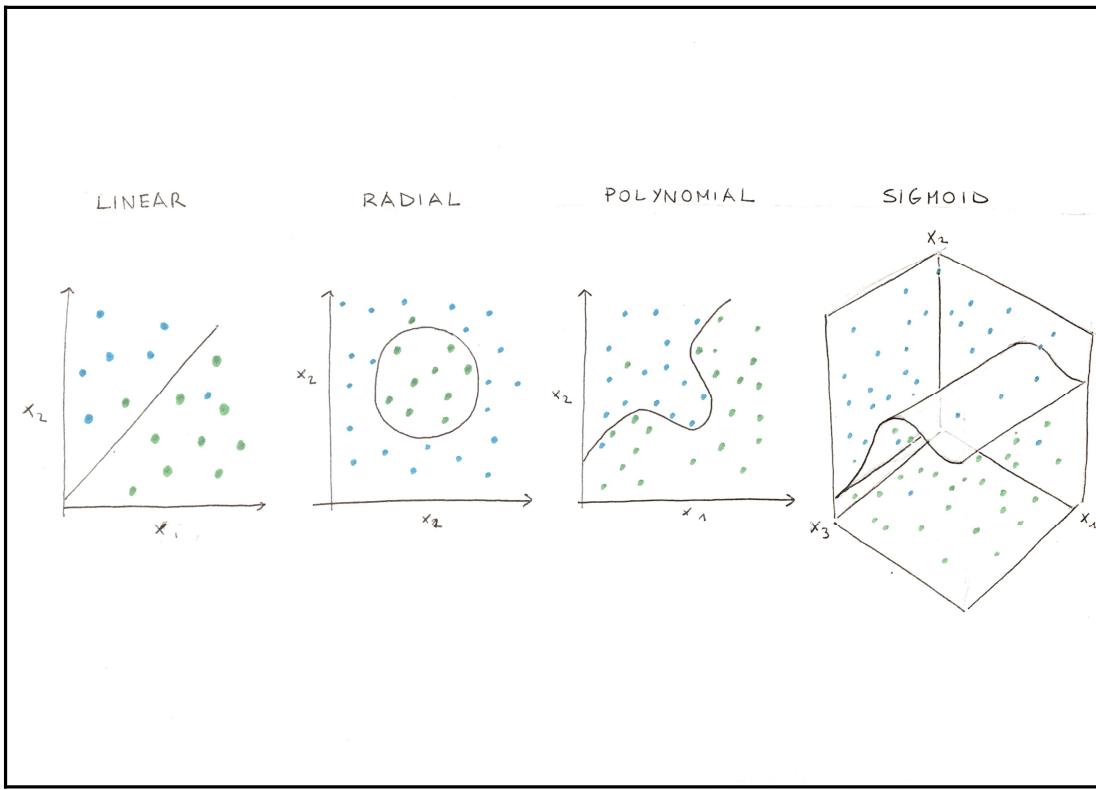
## Chapter 10: A Different Outlook to Problems with Classification Models





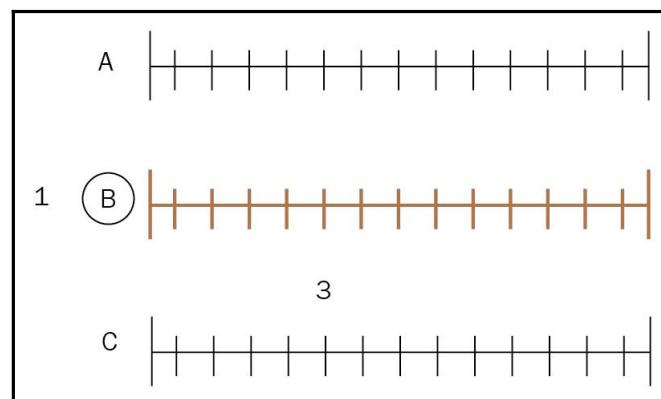


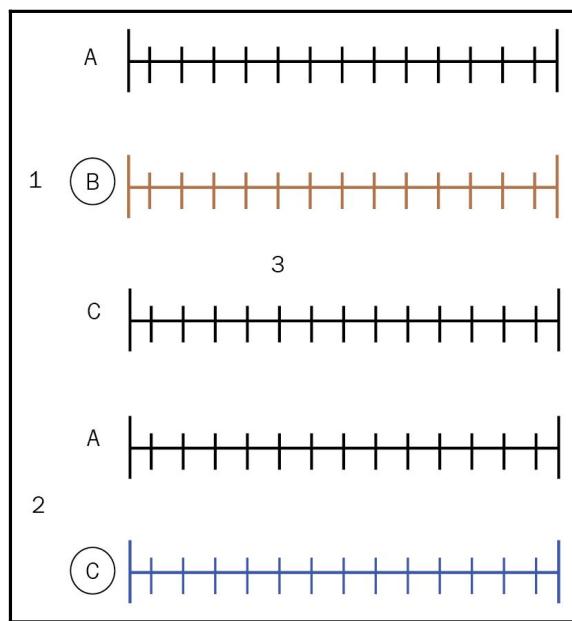


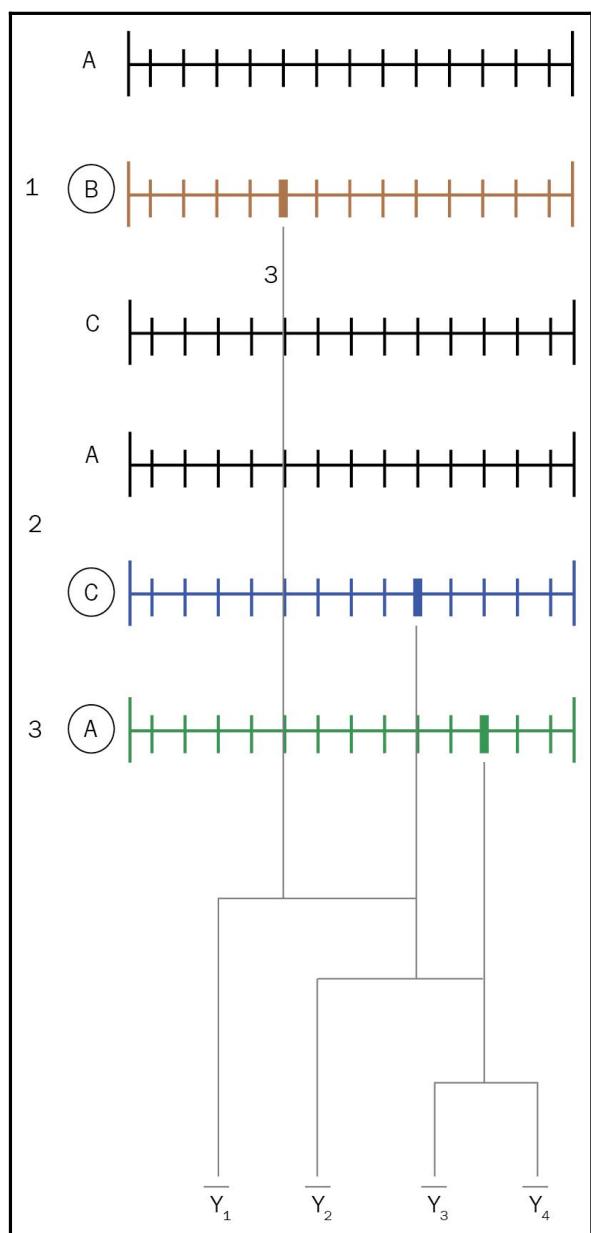


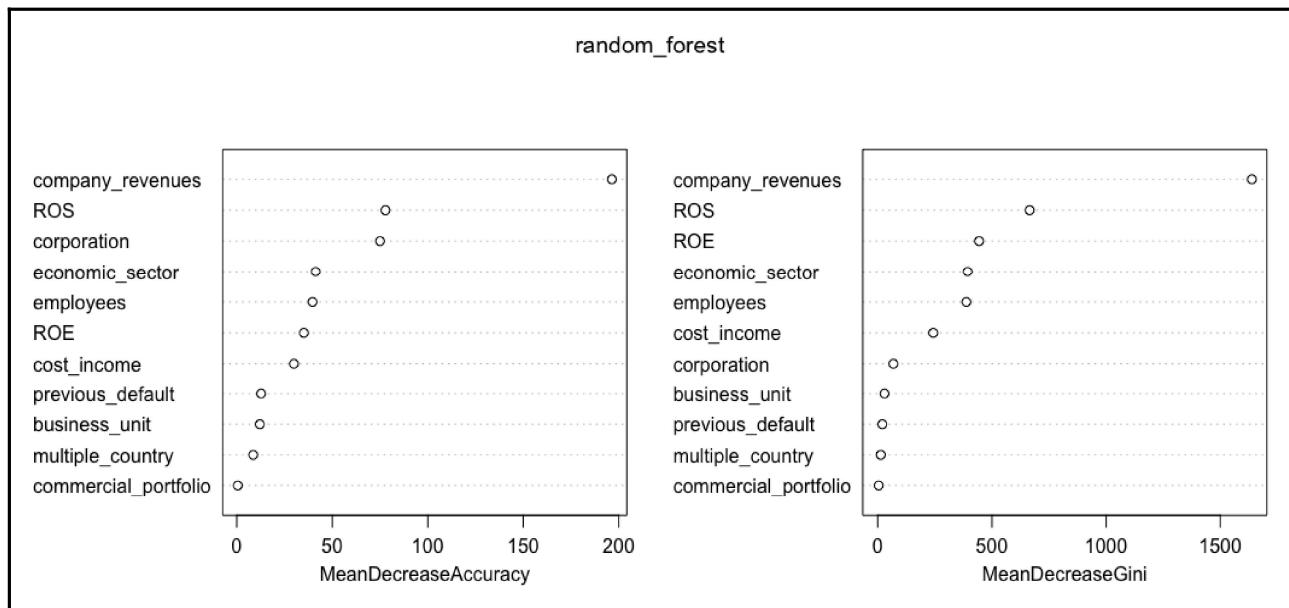
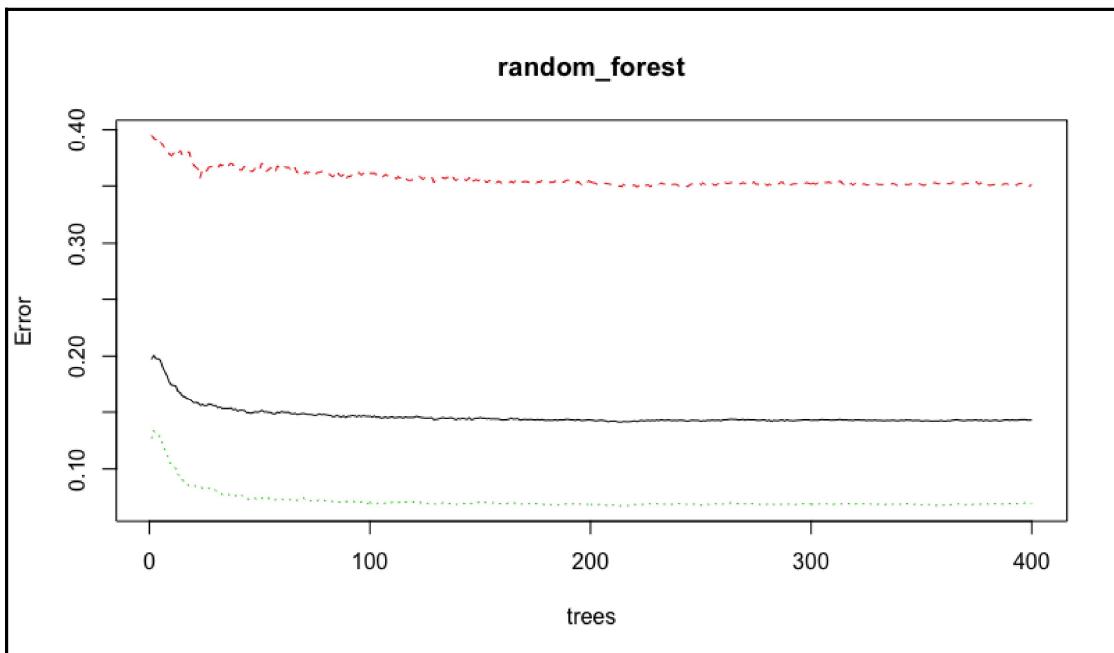
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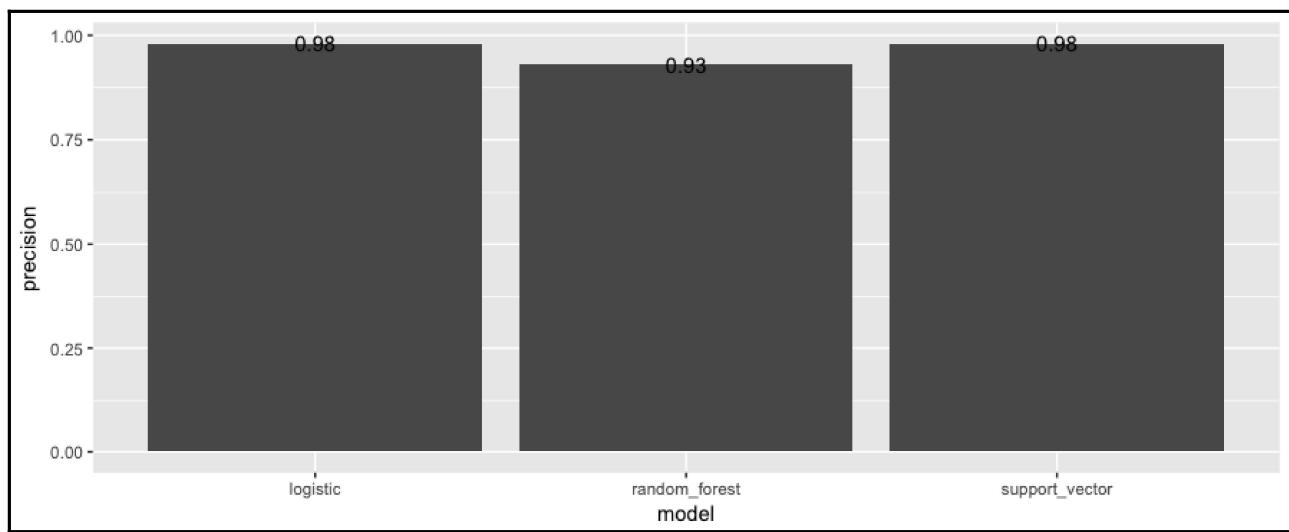
# Chapter 11: The Final Clash – Random Forests and Ensemble Learning











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## Chapter 12: Looking for the Culprit – Text Data Mining with R

