

Road to Machine Learning

2021-12-30

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Chapter 1

github

<https://github.com/tjxj/bookdown-r2ml>

1.1

1.2

1

2

3 LR RF XGBoost

4 “ ” kaggle notebook

5

6 OneNote

Chapter 2

Python

2.1 Python

```
240 Python
python 1|
    Python
    30 Python
17 Python    Ok
CuteCharts    Python
    30    Python
    30    Python
```

2.2 Numpy

```
    NumPy
## Pandas    Pandas
## Scipy
```

2.3 Matplotlib

2.4

Chapter 3

3.1

3.2

—

3.3

| 13
()
##

3.4

3.5

()https://mp.weixin.qq.com/s?__biz=MzA4MjYwMTc5Nw==&mid=2648929403&idx=1&sn=100c16dc28c486805690e001e7d43c17&chksm=8794e651b0e36f47d2337285cee26558b6f7d5ec11b037170d49a0fa175c1fdc384649130fa0&token=2004915986&lang=en_US#rd

3.6

Markdown

Chapter 4

4.1

“ ” “ ”
Bullshiter

4.2

```
|  
## | 100  
8 Python  
10 Python
```

4.3

4.4

——Precision Recall
AUC ROC

4.5

(——Python)https://mp.weixin.qq.com/s?__biz=MzA4MjYwMTc5Nw==&mid=2648929438&idx=1&sn=08ca45889cbd330e2dc134325cf756d8&chksm=8794e6b4b0e36fa2dbb3f8df6c6d4c853ccb97994875165ed041df0aad6ada2e948a68810dc4&token=2004915986&lang=en_US#rd
Dropout / Adam

4.6

4.7

Python sklearn

Boosting

4.8

4.9

4.10 &

Kaggle
offer
-Stacking Blending
15 Kaggle top2%

Chapter 5

| 10 Python R
!

5.1

5.1.1

shuhuai007 -
21
<https://space.bilibili.com/97068901/channel/detail?cid=54167>
19
https://github.com/ws13685555932/machine_learning_derivation ###
Python sklearn LR k SVM EM Adaboost GBDT XGBoost Python
python BP SVM K-Mean PCA https://github.com/lawlite19/MLearning_Python
https://github.com/WenDesi/lihang_book_algorithm
ithm
David Bourgin NumPy ML <https://github.com/ddbourgin/numpy-ml>
<https://numpy-ml.readthedocs.io/> ## 100 100 54 Avik-Jain 100-Days-Of-ML-Code + <https://github.com/Avik-Jain/100-Days-Of-ML-Code> 54 55 Avik-Jain star
<https://github.com/tjxj/100-Days-Of-ML-Code>

100	Day1
100	Day2
100	Day3
100	Day4-6
100	Day7 K-NN
100	Day8
100	Day9-12
100	Day11 KNN
100	Day13-14 SVM
100	Day15
100	Day16 SVM
100	Day17-18
100	Day19-20
100	Day21 Beautiful Soup
100	Day22
100	Day23-25 Python
100	Day26-29
100	Day 30-32
100	Day33-34
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100	Day36
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100	day38
100	day39 Tensorflow Keras
100	day40-42 Tensorflow Keras
100	day43 GIF K-
100	day44 k python
100	day45-53 Python
100	day54
100	Day55
100	Day56

100 |Day57 Adaboost ()
100 |Day58 NSL-KDD +LightGBM)
100 |Day59 GBDT
100 |Day60 XGBoost
100 |Day61 + XGBoost
100 |Day62

100
100 YAML

5.2

Lasso ElasticNet

5.3

Decision Tree ID3 Decision Tree C4.5
Decision Tree CART
ID3 C4.5 CART []
##

5.4

(python)

5.5

K

5.6 SVM

SVM

5.7**5.8**

Word2Vec LDA

5.9

(2) [,]
 P2
 P3 k-NN
 P4
 P5
 P6

5.10

/

Chapter 6

We have finished a nice book.

Chapter 7

BERT

Keras CS Keras Keras

7.1

Fork AI , AI star 24000 6700
<https://github.com/scutan90/DeepLearning-500-questions>
30 18 18
500

Chapter 8

N

8.1 TensorFlow VS PyTorch

TensorFlow PyTorch
PyTorch TensorFlow ML

8.1.1

ECS Python TensorFlow Jupyter
PyTorch Windows

8.2 sklearn

Scikit-Learn

8.3 Tensorflow

TensorFlow2.0
TensorFlow2.0 10 1.X 2.0 TensorFlow 1.X
TensorFlow2.0 — TensorFlow2.0 TensorFlow2.0 Tensor-
sorFlow2.0 TensorFlow2.0 TensorFlow2.0 Dataset Tensor-
Flow2.0 TensorFlow2.0 — TensorFlow2.0 9 TensorBoard
TensorFlow2.0 10 Dataset TensorFlow2.0 11 tf.keras

8.4 Pytorch

8.4.1 Pytorch

Stéphane d’Ascoli, Andrei Bursuc Timothée Lacroix “ PyTorch ”

PPT

Github

: <http://www.dataflowr.com>

GitHub : <https://github.com/mlelarge/dataflowr>

8.4.2

17 Pytorch

Excel 36 MySQL

BP

Excel Python

Python PDF

IDE Jupyter Notebook

Anaconda -Spyder

JupyterLab

Python IDE

Chapter 9

Github
Github 3K+

9.1 R

BOOKDOWN <https://bookdown.org/> 5
5 <https://r-graphics.org/>
<https://r4ds.had.co.nz/>
<https://rafalab.github.io/dsbook/>
<https://www.tidytextmining.com/>
<https://otexts.com/fpp2/>

Chapter 10

PDF , 579 B PDF (https://t.lyb.co/2aI3) [PPT CS50 Python] (https://t.lyb.co/2g6v)
[Python] (https://t.lyb.co/Bfly) 2020 (pdf)]
~Python 2 PRML Python
.pdf .pdf 694 PDF 476 pdf
80 175 PDF .PDF .pdf
476 pdf - pdf 87 python pdf
Python PyTorch Machine Learning Yearning

Chapter 11

45

Chapter 12

Python

12.1 bilibili

<https://space.bilibili.com/17868971/video>

12.2