

A Database for Data Science

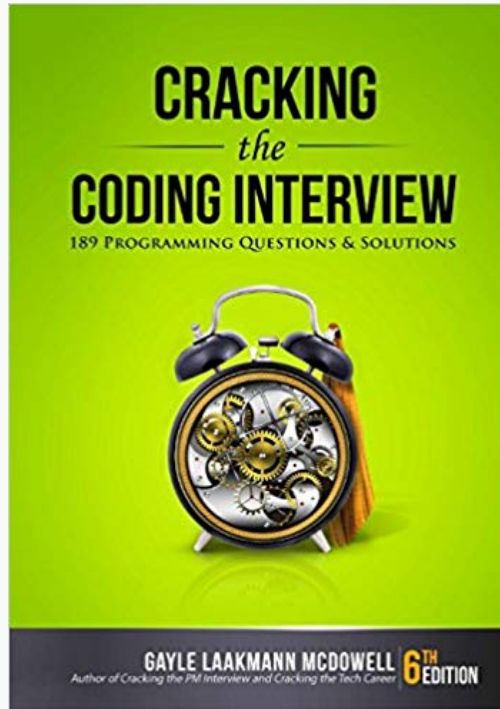
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Purpose

A DBMS to help aspiring data scientists prepare for interviews and practice relevant skills on-the-go.

Topics may include:

- programming languages (Python, SQL, R, JavaScript)
- Machine Learning
- Data Visualization
- Statistics



<https://www.amazon.com/Cracking-Coding-Interview-Programming-Questions/dp/0984782850>

Practice for your completed courses ?

Introduction to Python for Data Science

Practice for your courses in progress ?

Introduction to R Intermediate Python for Data Science

Practice for courses you didn't start yet ?

Assuming `matplotlib.pyplot` is imported as `plt`, which of the following commands results in the plot below?

Complete the code to return the output

```
diameter = {
    'earth': 1,
    ? 9.45
}
print(diameter)
```

{'earth': 1, 'saturn': 9.45}

FILL IN THE BLANKS

'mars': 'earth': 'saturn':

'jupiter': 'venus': 'mercury':

Reset

SELECT THE CORRECT ANSWER

`plt.lineplot([10, 20, 30, 40], [5, 6, 7, 8])`

`plt.plot([10, 20, 30, 40], [5, 6, 7, 8])`

Check

<https://www.datacamp.com/community/blog/practice-mode-arrives-on-mobile>

SVC SOFT-MARGIN CLASSIFICATION

Objective Function = $\frac{1}{2} \|w\|^2 + C \left(\sum_i \xi_i \right)$

Parameters: C (Hyperparameter controlling the penalty for misclassification)

Slack variable: $\xi_i \geq 1$ says the observation is misclassified. $0 < \xi_i < 1$ says the observation violates the margin, but is not misclassified.

Chris Albon

SVC RADIAL BASIS FUNCTION KERNEL

BY CHRIS ALBON

T-STATISTIC

Number of standard deviations a parameter is away from a constant.

$$t = \frac{\hat{\beta}_i - c}{SE(\hat{\beta}_i)}$$

Parameter: $\hat{\beta}_i$, Some constant: c , Standard error: $SE(\hat{\beta}_i)$

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<https://machinelearningflashcards.com/>

Design

Relational DBMS

Relations:

- User
- Flashcards
- Questions
- Interview Prep
- Topic
- Subtopic

User interface: mobile application

