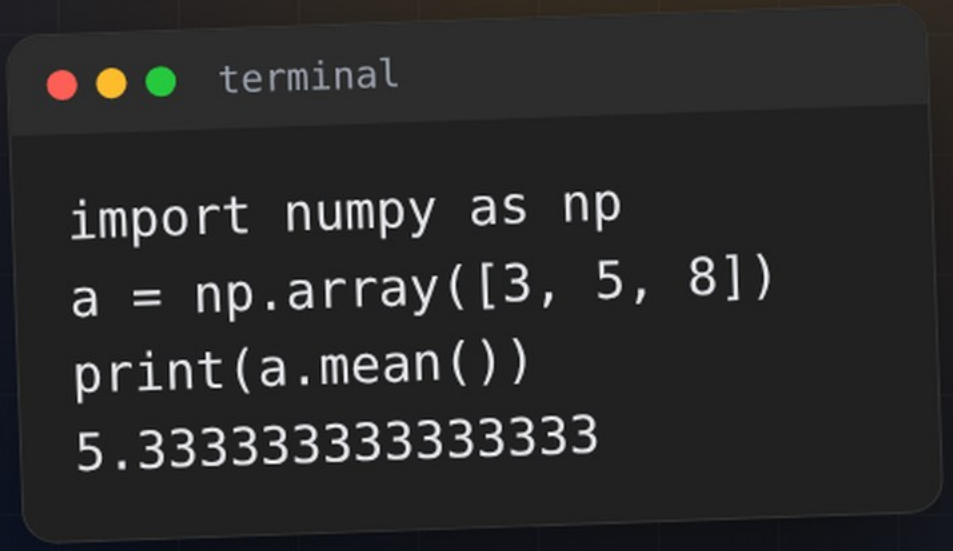
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DATA SCIENCE

Python · AWK · SQL



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Python for Data

1. Strings, lists, sets, tuples, dicts
2. NumPy for fast arrays
3. Functional & object-oriented Python

terminal

```
import numpy as np
a = np.array([3, 5, 8])
print(a.mean())
5.333333333333333
```

CLIP 04

Clean Data on the Command Line

1. Slice CSV files with AWK
2. Filter with grep, sort & uniq
3. Automate it with Bash

terminal

```
$ awk -F, '{print $2}' sales.csv \
    | sort | uniq -c \
    | sort -nr | head
```

CLIP 04

Query Your Data With SQL

1. Free MySQL & MariaDB course
2. SELECT, JOIN, GROUP BY
3. Move data from SQL to Python

terminal

```
SELECT region, SUM(total)
FROM sales
GROUP BY region;
```

CLIP 04

AI Explained

1. How AI and LLMs work
2. Python AI modules
3. Prompting vs. agentic AI

```
terminal
>>> import numpy as np
>>> # your first step toward AI
```

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