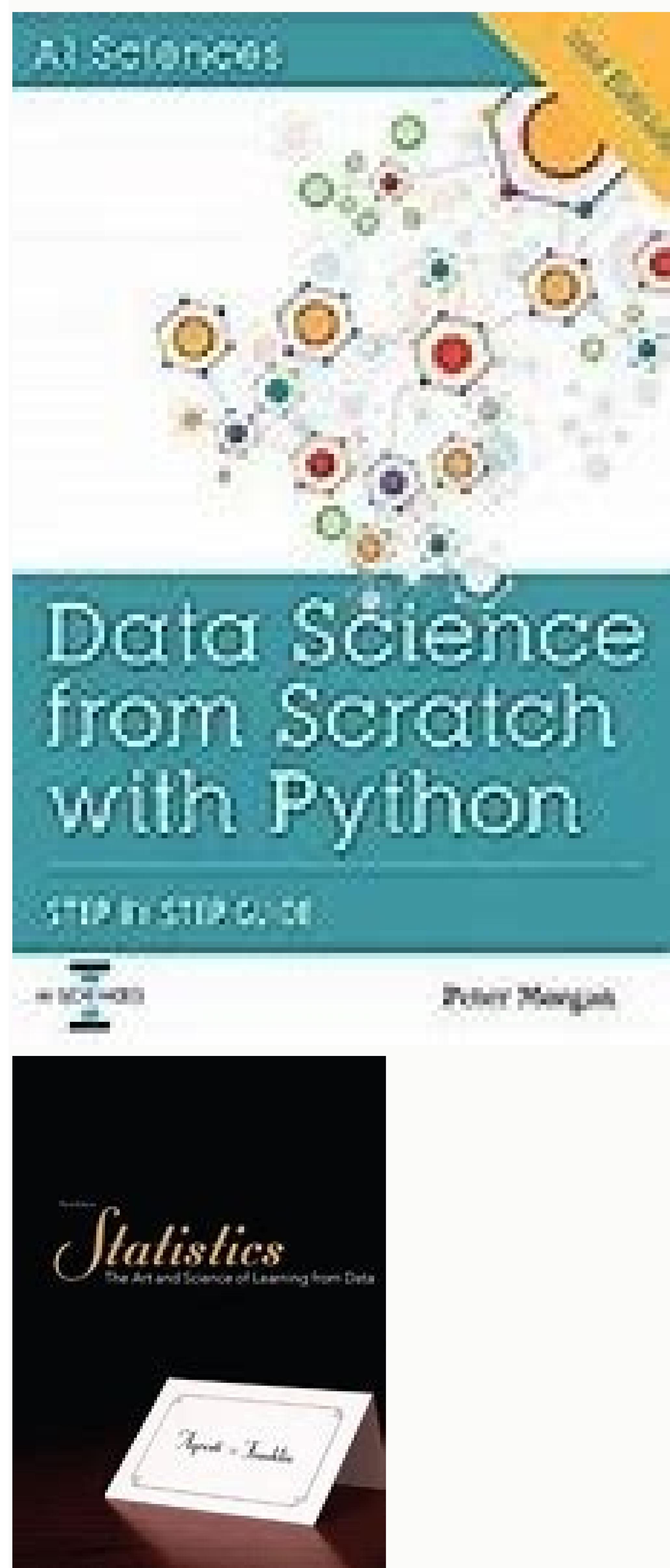


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**DEFINITION**

dispersion refers to measures of how spread-out our data is. Typically they're stats which values mean very slightly not spread out at all and for which large vs. small means equally very spread out. For instance, a very simple measure range, which is just the difference between the largest and smallest elements.

e.g. range already built-in Python, so we'll use a different one:

```
def data_range(x):
    return max(x) - min(x)
```

Note: dispersion = range

range is zero precisely when the max and min are equal, which can only happen

if all elements are all the same, which means the data is as uninteresting as possible.

If the range is large, then the max is much larger than the min and the data is spread out.

The median, the range doesn't really depend on the whole data set. A data

set where all values is or 100 has the same range as a data set whose values

is 0, and lots of 99. But it seems like the first data set "should" be more spread-

out. A complex measure of dispersion is the variance, which is computed as

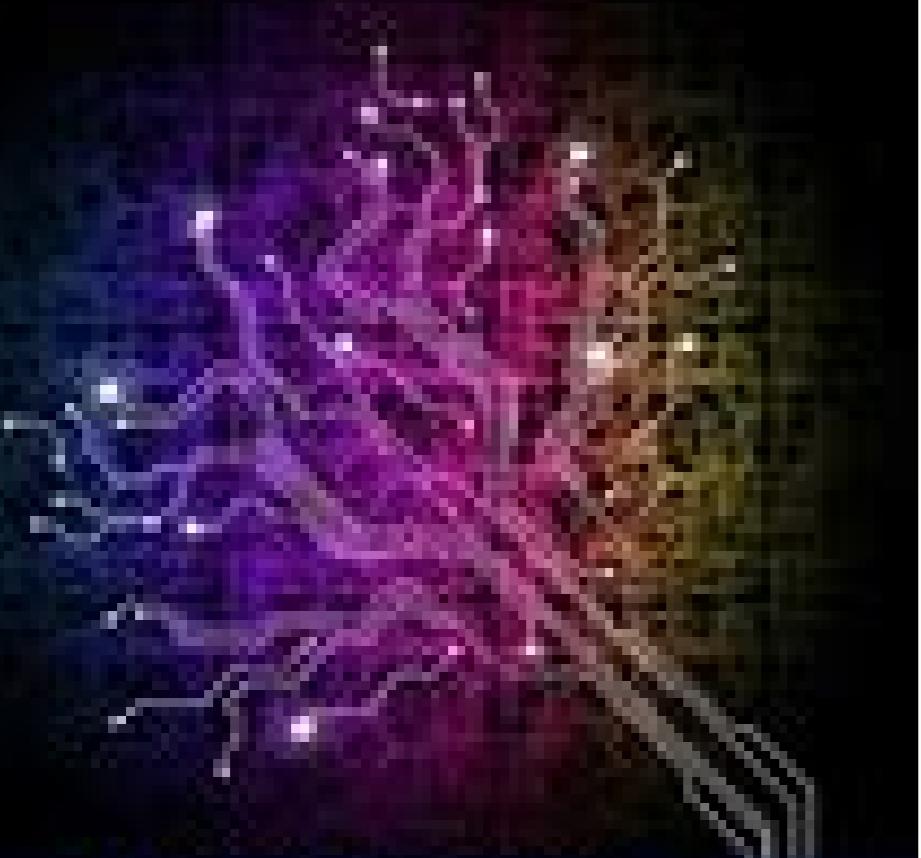
```
def mean(x):
    """compute a to subtracting the mean (so the result has mean 0)"""
    a = [x[i] - mean(x) for i in range(len(x))]
```

```
def variance(x):
    """compute a sum of least squares"""
    n = len(x)
    deviation = [x[i] - mean(x) for i in range(len(x))]
    return sum([x[i]**2 for i in range(n)]) / (n - 1)
```

*Note: variance = sum((x - mean(x))**2) / (len(x) - 1)*

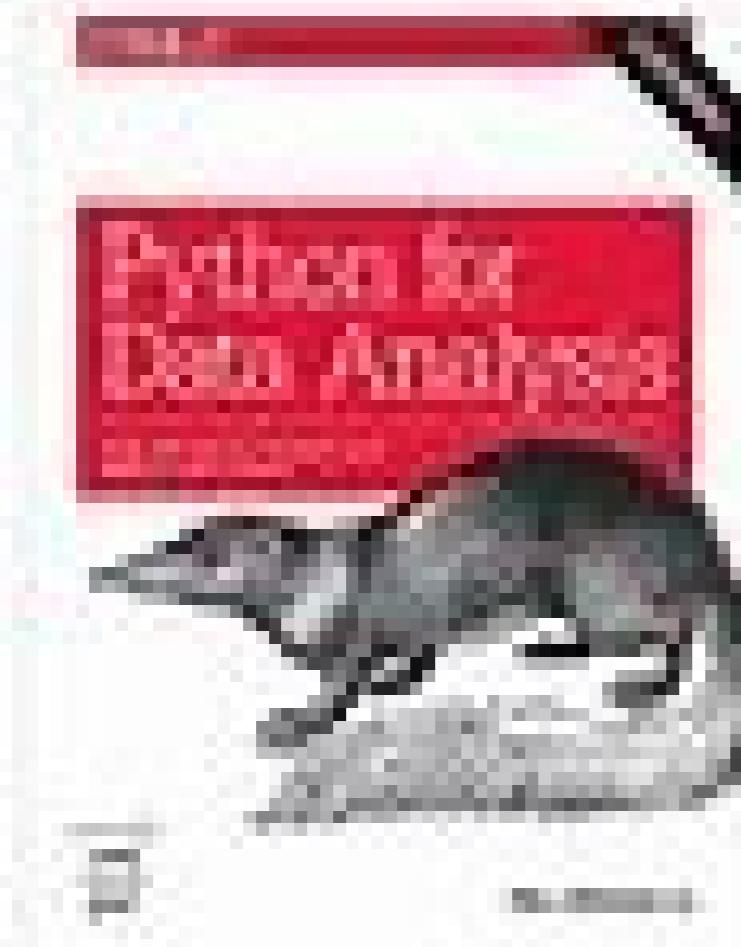
DATA SCIENCE FROM SCRATCH

• **Project Quality Management** includes planning, monitoring, and controlling project quality. It also includes all management of risks related to quality.



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He contributes to several open source software projects and volunteers as a hacking instructor in his local community. Preface by Charlie Chapter 1: Set your Python Python Environment chapter Basic network tools Chapter 3: Writing a Sniffer chapter 4: Owning the network with Scapy head 5: Network hacking chapter 6: Extension of Chapter 7: Burp command and Control chapter 8: Common tasks of Troy on Windows chapter 9: Fun with Exfiltration Chapter 10: Windows Privilege Escalation Chapter 11: Index Forensic Index The Copyright Page View the detailed Table of Contents View the Index Black Hat Python is a fun read by experts with years of experience who are willing to share the secrets they have learned along the way. While it may not immediately turn you into a super acrobatic hacker like me, it will certainly get you started on the right path. 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