
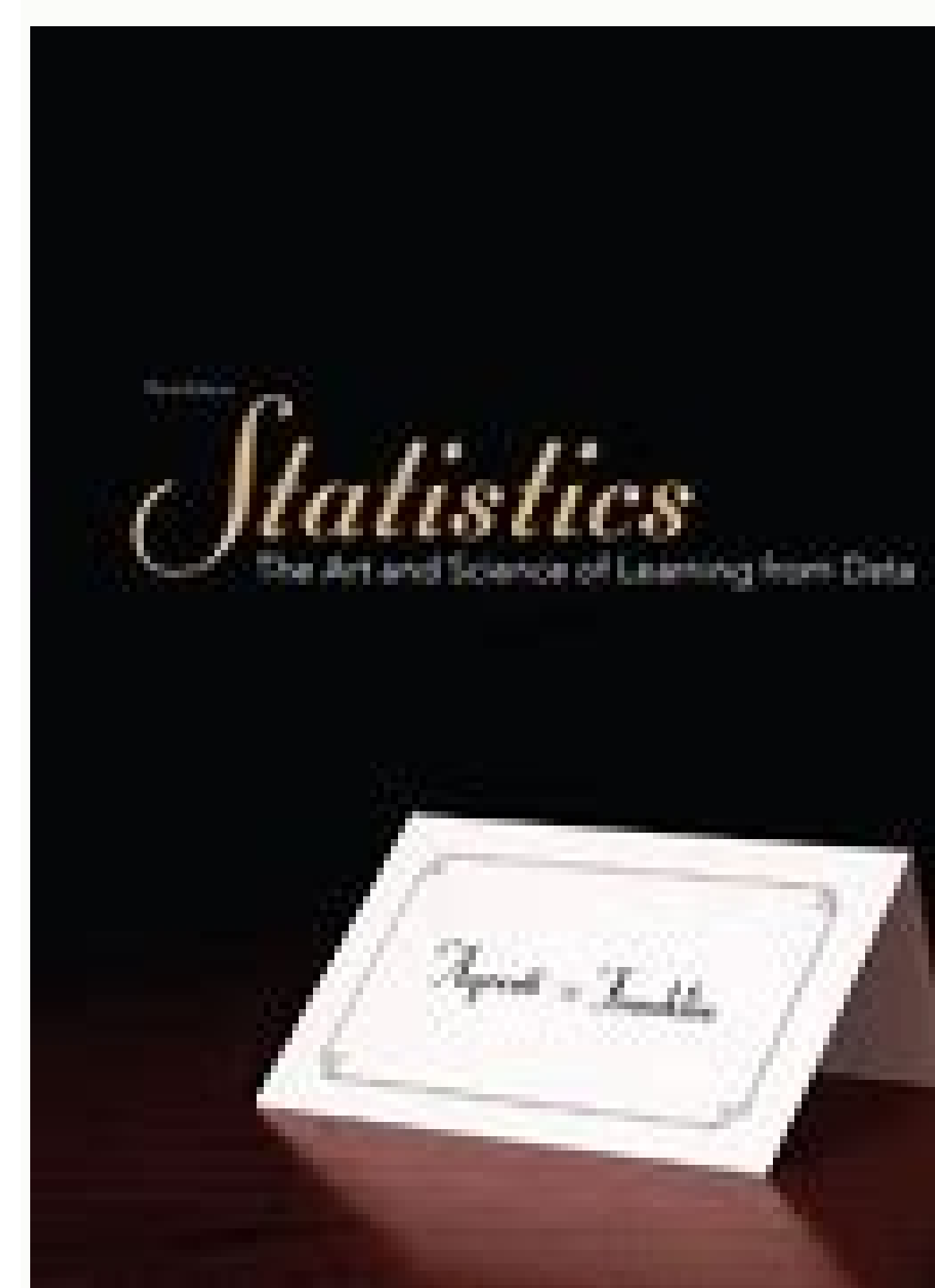
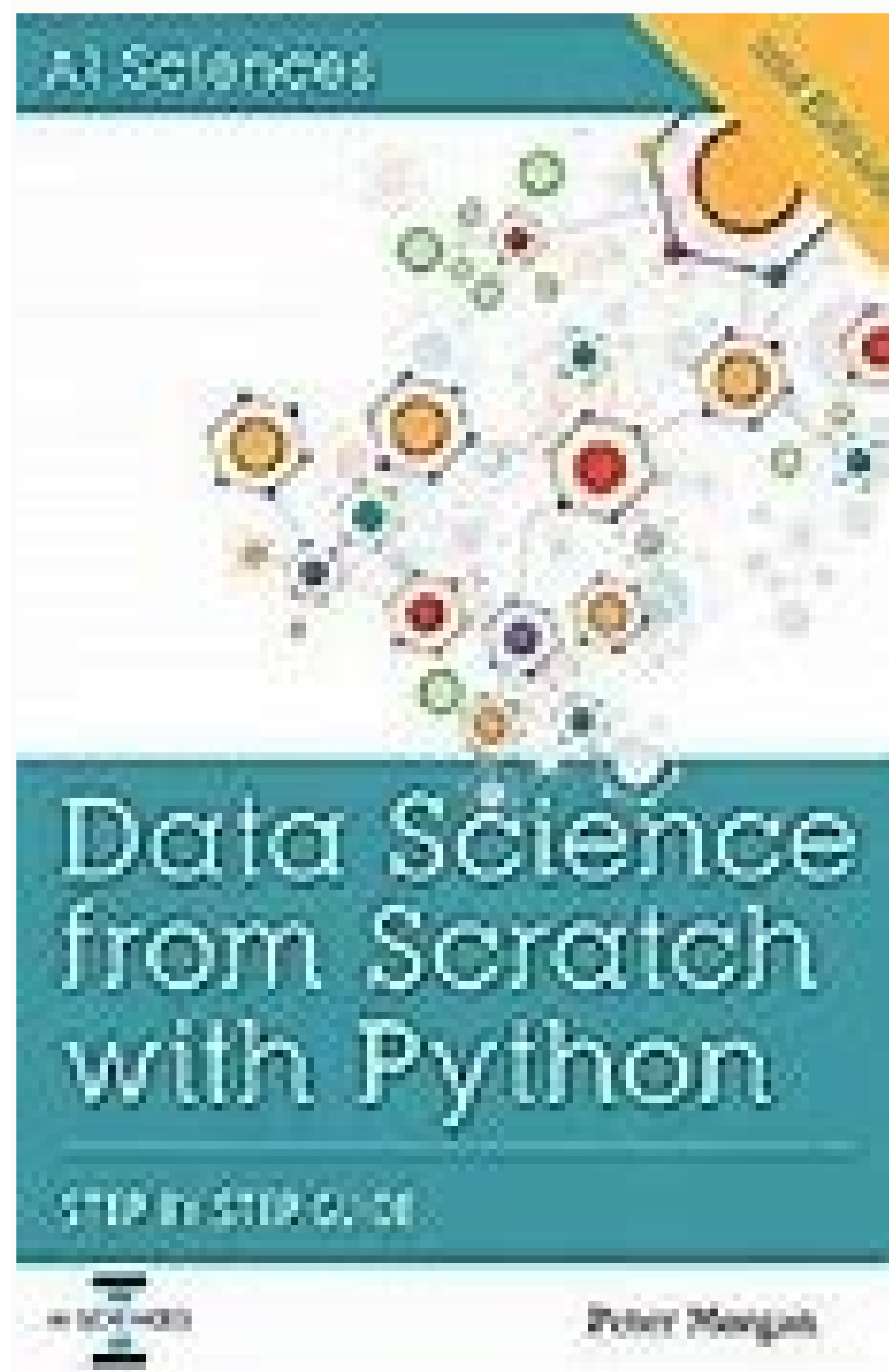


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Next



variance

variance refers to measures of how spread out our data is. Typically they're stats which values near zero signify *not* spread out at all and for which large (or even that means) signify *very* spread out. For instance, a very simple measure range, which is just the difference between the largest and smallest elements

```
# "range" already exists in Python, so we'll use a different name
def data_range(x):
    return max(x) - min(x)
```

```
data_range(friends) # 10
```

range is zero precisely when the max and min are equal, which can only happen if elements of x are all the same, which means the data is as undispersed 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 points are all either 0 or 100 has the same range as a data set whose values are, say, 0 and 1000. 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 data_variance(x):
    """variance is the sum of squares of deviations from the mean"""
    x_bar = mean(x)
    return sum((x - x_bar) ** 2 for x in x)
```

```
data_variance(friends) # 10.0
```



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