

# Errata Sheet

Last Updated: 11/9/2022

## Chapter 3

- On page 42 and on page 43, the following Python code

```
ax = plt.figure(figsize=(12, 10)).gca(projection='3d')
```

should be rewritten as

```
fig = plt.figure(figsize=(12,10))  
ax = fig.add_subplot(projection='3d')
```

The `gca()` function is now deprecated.

## Chapter 4

- On page 53, the gradient of the SVM loss near Equation (4.9) should be written as

$$\nabla \ell = \begin{cases} -y\vec{x} & y\vec{w} \cdot \vec{x} < 1 \\ 0 & y\vec{w} \cdot \vec{x} > 1 \end{cases}$$

- On page 54, in Figure 4.4, the lines of boundary should be labeled  $\vec{w} \cdot \vec{x} = -1, 0, +1$  (left to right).

## Chapter 8

- On page 101, the phrase “an loss” should be written as “a loss.”

## Chapter 11

- On page 137, the equation in Example 11.4.5 should be written as

$$J(\vec{z}, \vec{x}) = J(\vec{z}, \vec{y})J(\vec{y}, \vec{x}) = \text{diag}(\mathbb{1}(\mathbf{A}\vec{x} > 0))\mathbf{A}$$