

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test Set

Training Set

5-fold cross-validation

$$E_g = 5.1$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

5-fold cross-validation

$$E_g =$$

3.7

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

5-fold cross-validation

$$E_g = 4.6$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

5-fold cross-validation

$$E_g =$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

5-fold cross-validation

$$E_g =$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

$$\langle E_g \rangle = \frac{5.1 + 3.7 + 4.6 + 4.6 + 3.3}{5} = 4.3$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test Set

Training Set

10-fold cross-validation

$$E_g = 5.4$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test Set

Training Set

10-fold cross-validation

$$E_g = 1.4$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set Test Set

Training Set

10-fold cross-validation

$$E_g = 4.4$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

10-fold cross-validation

$$E_g =$$

3.2

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

10-fold cross-validation

$$E_g =$$

7

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

10-fold cross-validation

$$E_g = 0.59$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

Training Set

10-fold cross-validation

$$E_g = \qquad \qquad \qquad 4.1$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set Training Set

10-fold cross-validation

$$E_g =$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

Test Set

10-fold cross-validation

$$E_g =$$

5.8

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Training Set

10-fold cross-validation

Test Set

$E_g =$

2.3

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

$$\langle E_g \rangle = \frac{5.4 + 1.4 + 4.4 + 3.2 + 7 + 0.59 + 4.1 + 5 + 5.8 + 2.3}{10} = 3.9$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test

Leave-one-out cross-validation

$$E_g = 4.2$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test

Leave-one-out cross-validation

$$E_g = 2.9$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test

Leave-one-out cross-validation

$$E_g = 4.2$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test

Leave-one-out cross-validation

$$E_g = 1.4$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test

Leave-one-out cross-validation

$$E_g = 3$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Test

Leave-one-out cross-validation

$$E_g = 3.7$$

$$\mathcal{D} = \{D_i\}_{i=1}^P \quad D_i = (\mathbf{x}_i, y_i)$$

D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}	D_{14}	D_{15}	D_{16}	D_{17}	D_{18}	D_{19}	D_{20}
-------	-------	-------	-------	-------	-------	-------	-------	-------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

$$\langle E_g \rangle = 3.98$$