

- A. This is an example of a model with high bias
- B. The model function has the right complexity to fit the true function
- C. The model function does not have enough complexity to fit the true function and underfits the model
- D. The model function has too many complexities and over fits the model

1.4 In the snippet of code below which method compares features in a dataset and generates a threshold value for the comparisons, and which method locates individual elements in the dataset, respectively.

```
In [134]: def get_correlation(data, threshold):
            corr_column = set()
            corrmatrix = data.corr()
            for i in range(len(corrmatrix.columns)):
                for j in range(i):
                    if abs(corrmatrix.iloc[i, j]) > threshold:
                        colname = corrmatrix.columns[i]
                        corr_column.add(colname)
            return corr_column
```

- A) corrmatrix, i
- B) .corr(), set()
- C) .corr(), .iloc[]
- D) set(), iloc[]

1.5 This type of learning is used to identify different segments of customers and group them into categories like gender, age and location.

- A) Reinforcement learning with agents
- B) Unsupervised learning with clustering
- C) Supervised learning with regression
- D) Supervised learning with classification

1.6 The algorithm that finds the best fit model by automatically selecting the best features in a dataset and handles missing data is _____?

- A) Neural Networks
- B) SVM
- C) Random Forest
- D) Decision Trees

1.7

	A	B	C	D	E	F	G	H	I
Type	Flour	Milk	Sugar	Butter	Egg	Baking Powder	Vanilla	Salt	
Muffin	55	28	3	7	5	2	0	0	
Muffin	47	24	12	6	9	1	0	0	
Muffin	47	23	18	6	4	1	0	0	
Muffin	45	13	17	17	8	1	0	0	
Muffin	50	25	12	6	5	2	1	0	
Muffin	55	27	3	7	5	2	1	0	
Muffin	54	27	7	5	5	2	0	0	
Muffin	47	26	10	10	4	1	0	0	
Muffin	50	17	17	8	6	1	0	0	
Muffin	50	17	17	11	4	1	0	0	
Cupcake	39	0	26	19	14	1	1	0	
Cupcake	42	21	16	10	8	3	0	0	
Cupcake	34	17	20	20	5	2	1	0	
Cupcake	39	13	17	19	10	1	1	0	
Cupcake	38	15	23	15	8	0	1	0	
Cupcake	42	18	25	9	5	1	0	0	
Cupcake	36	14	21	14	11	2	1	0	
Cupcake	38	15	31	8	6	1	1	0	
Cupcake	36	16	24	12	9	1	1	0	
Cupcake	34	17	23	11	13	0	1	0	