

New study the effect of pH

Wednesday, July 10, 2024 11:46 AM

Synthetic data has the same size as training data

=====Ace=====

task0:
==Among training data==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.5
task_ind 0.0
Name: 1, dtype: float64
==After simulation==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.6
task_ind 0.0
Name: 7, dtype: float64

task1:
==Among training data==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.5
task_ind 1.0
Name: 25, dtype: float64
==After simulation==
Buffer_Type_label 0.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH 3.7
task_ind 1.0
Name: 38, dtype: float64

task2:
==Among training data==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.5
task_ind 2.0
Name: 49, dtype: float64
==After simulation==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 3.7
task_ind 2.0
Name: 50, dtype: float64

Synthetic data is twice of training data size

=====Ace=====

task0:
==Among training data==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.5
task_ind 0.0
Name: 1, dtype: float64
==After simulation==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 3.8
task_ind 0.0
Name: 4, dtype: float64

task1:
==Among training data==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.5
task_ind 1.0
Name: 25, dtype: float64
==After simulation==
Buffer_Type_label 0.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH 3.7
task_ind 1.0
Name: 1, dtype: float64

task2:
==Among training data==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 4.5
task_ind 2.0
Name: 49, dtype: float64
==After simulation==
Buffer_Type_label 0.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 3.7
task_ind 2.0
Name: 0, dtype: float64

=====His=====

task0:
==Among training data==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.0
task_ind 0.0
Name: 8, dtype: float64
==After simulation==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 5.9
task_ind 0.0
Name: 8, dtype: float64

task1:
==Among training data==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.5
task_ind 1.0
Name: 35, dtype: float64
==After simulation==
Buffer_Type_label 1.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH 5.7
task_ind 1.0
Name: 35, dtype: float64

task2:
==Among training data==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.0
task_ind 2.0
Name: 56, dtype: float64
==After simulation==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 0.0
pH 5.3
task_ind 2.0
Name: 66, dtype: float64

=====Cit=====

task0:
==Among training data==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.0
task ind 0.0

=====His=====

task0:
==Among training data==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.0
task_ind 0.0
Name: 8, dtype: float64
==After simulation==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 5.1
task_ind 0.0
Name: 4, dtype: float64

task1:
==Among training data==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.5
task_ind 1.0
Name: 35, dtype: float64
==After simulation==
Buffer_Type_label 1.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH 5.0
task_ind 1.0
Name: 1, dtype: float64

task2:
==Among training data==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.0
task_ind 2.0
Name: 56, dtype: float64
==After simulation==
Buffer_Type_label 1.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 5.1
task_ind 2.0
Name: 3, dtype: float64

=====Cit=====

task0:
==Among training data==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH 6.0
task ind 0.0

```
Name: 14, dtype: float64
==After simulation==
Buffer_Type_label 2.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH      5.0
task_ind 0.0
Name: 14, dtype: float64
```

```
task1:
==Among training data==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 0.0
pH      5.0
task_ind 1.0
Name: 36, dtype: float64
==After simulation==
Buffer_Type_label 2.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH      3.9
task_ind 1.0
Name: 29, dtype: float64
```

```
task2:
==Among training data==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 0.0
pH      5.0
task_ind 2.0
Name: 60, dtype: float64
==After simulation==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH      4.4
task_ind 2.0
Name: 54, dtype: float64
```

```
=====Phos=====
task0:
==Among training data==
Buffer_Type_label 3.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH      7.0
task_ind 0.0
Name: 23, dtype: float64
==After simulation==
Buffer_Type_label 3.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH      8.2
task_ind 0.0
Name: 10, dtype: float64
```

```
Name: 14, dtype: float64
==After simulation==
Buffer_Type_label 2.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH      5.6
task_ind 0.0
Name: 108, dtype: float64
```

```
task1:
==Among training data==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 0.0
pH      5.0
task_ind 1.0
Name: 36, dtype: float64
==After simulation==
Buffer_Type_label 2.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH      3.7
task_ind 1.0
Name: 2, dtype: float64
```

```
task2:
==Among training data==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 0.0
pH      5.0
task_ind 2.0
Name: 60, dtype: float64
==After simulation==
Buffer_Type_label 2.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH      4.3
task_ind 2.0
Name: 33, dtype: float64
```

```
=====Phos=====
task0:
==Among training data==
Buffer_Type_label 3.0
Sugar_Salt_label 0.0
Additive_label 1.0
pH      7.0
task_ind 0.0
Name: 23, dtype: float64
==After simulation==
Buffer_Type_label 3.0
Sugar_Salt_label 1.0
Additive_label 0.0
pH      8.0
task_ind 0.0
Name: 101, dtype: float64
```

```
task1:  
==Among training data==  
Buffer_Type_label 3.0  
Sugar_Salt_label 0.0  
Additive_label 0.0  
pH 7.0  
task_ind 1.0  
Name: 46, dtype: float64  
==After simulation==  
Buffer_Type_label 3.0  
Sugar_Salt_label 1.0  
Additive_label 0.0  
pH 6.4  
task_ind 1.0  
Name: 29, dtype: float64
```

```
task2:  
==Among training data==  
Buffer_Type_label 3.0  
Sugar_Salt_label 0.0  
Additive_label 1.0  
pH 6.5  
task_ind 2.0  
Name: 69, dtype: float64  
==After simulation==  
Buffer_Type_label 3.0  
Sugar_Salt_label 0.0  
Additive_label 1.0  
pH 6.4  
task_ind 2.0  
Name: 66, dtype: float64
```

```
task1:  
==Among training data==  
Buffer_Type_label 3.0  
Sugar_Salt_label 0.0  
Additive_label 0.0  
pH 7.0  
task_ind 1.0  
Name: 46, dtype: float64  
==After simulation==  
Buffer_Type_label 3.0  
Sugar_Salt_label 1.0  
Additive_label 0.0  
pH 6.2  
task_ind 1.0  
Name: 2, dtype: float64
```

```
task2:  
==Among training data==  
Buffer_Type_label 3.0  
Sugar_Salt_label 0.0  
Additive_label 1.0  
pH 6.5  
task_ind 2.0  
Name: 69, dtype: float64  
==After simulation==  
Buffer_Type_label 3.0  
Sugar_Salt_label 0.0  
Additive_label 1.0  
pH 6.3  
task_ind 2.0  
Name: 6, dtype: float64
```


