





Python Script for Scalable Apriori Algorithm - Orange

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Editor

```
def python_script():  
    3  
    4 # Sample transaction data  
    5 data = {'Milk': [1, 0, 1, 1, 0],  
    6         'Bread': [1, 1, 0, 1, 0],  
    7         'Butter': [0, 1, 1, 1, 0],  
    8         'Cheese': [0, 1, 0, 1, 1]}  
    9  
    10 df = pd.DataFrame(data)  
    11  
    12 # Apply FP-Growth algorithm  
    13 frequent_itemsets = fpgrowth(df, min_support=0.4,  
    14                             use_colnames=True)  
    15 rules = association_rules(frequent_itemsets,  
    16                           metric="confidence", min_threshold=0.7)  
    17  
    18 # Print results  
    19 print("Frequent Itemsets:")  
    20 print(frequent_itemsets)  
    21 print("\nAssociation Rules:")  
    22 print(rules)  
    23  
    24 return out_data, out_learner, out_classifier, out_object
```

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Console

```
Frequent Itemsets:
support      itemsets
0      0.6      (Bread)
1      0.6      (Milk)
2      0.6      (Cheese)
3      0.6      (Butter)
4      0.4      (Bread, Butter)
5      0.4      (Bread, Cheese)
6      0.4      (Bread, Cheese, Butter)
7      0.4      (Bread, Milk)
8      0.4      (Milk, Butter)
9      0.4      (Cheese, Butter)

Association Rules:
antecedents consequents ... conviction
zhangs_metric
0 (Bread, Cheese) (Butter) ... inf
0.666667
1 (Bread, Butter) (Cheese) ... inf
0.666667
2 (Cheese, Butter) (Bread) ... inf
0.666667
.

[3 rows x 10 columns]
>>> |
```