**DBSCAN**

Online order

Silhouette score: 0.9282489543484833

Confusion matrix:

TN = 9128 FP = 3

FN = 863 TP = 6

Precision: 0.6666666666666666

Recall: 0.006904487917146145

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repeat\_retailer

Silhouette score: 0.9455983943429713

Confusion matrix:

TN = 9126 FP = 1

FN = 868 TP = 5

Precision: 0.8333333333333334

Recall: 0.0057273768613974796

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Used\_chip

Silhouette score: 0.9222981034606906

Confusion matrix:

TN = 9128 FP = 5

FN = 860 TP = 7

Precision: 0.5833333333333334

Recall: 0.008073817762399077

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Used\_pin

Silhouette score: 0.927835331136742

Confusion matrix:

TN = 9090 FP = 4

FN = 902 TP = 4

Precision: 0.5

Recall: 0.004415011037527594

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**Iforest**

Online order

PRECIZNOST 0.42857142857142855

ODZIV: 0.03480278422273782

skor siluete 0.8386739998936006

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repeat\_retailer

PRECIZNOST 0.5285714285714286

ODZIV: 0.04157303370786517

skor siluete 0.8312974795599916

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Used\_chip

PRECIZNOST 0.5571428571428572

ODZIV: 0.04276315789473684

skor siluete 0.8438775325658088

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Used\_pin

PRECIZNOST 0.3142857142857143

ODZIV: 0.026004728132387706

skor siluete 0.8397520018308855

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**OC-SVM**

Online order

PRECIZNOST: 0.16903380676135227

ODZIV: 1.0

Skor siluete: 0.1190392784498583

PRECIZNOST (2): 0.16903380676135227

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repeat\_retailer

PRECIZNOST: 0.1622

ODZIV: 1.0

Skor siluete: 0.20656229369854096

PRECIZNOST (2): 0.1622

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Used\_chip

PRECIZNOST: 0.17850710426255753

ODZIV: 1.0

Skor siluete: 0.11986533424639756

PRECIZNOST (2): 0.17850710426255753

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Used\_pin

PRECIZNOST: 0.1788357671534307

ODZIV: 1.0

Skor siluete: 0.1930114853531792

PRECIZNOST (2): 0.1788357671534307

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Ispitivao sam algoritme nad skupom atributa Online order, repeat\_retailer, Used\_chip, Used\_pin.

Rezultati

|  |  |  |  |
| --- | --- | --- | --- |
|  | Preciznost | Odziv | silhouette score |
| Iforest | 0 | 0 | 0.4449605225684467 |
| OC-SVM | 0.05057096247960848 | 0.39976553341148885 | 0.05057096247960848 |