Customer Clusters Documentation

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The clustering process was performed using the KMeans algorithm.

Features considered:

- 1. AvgAmountPerTransaction
- 2. Region_Encoded (numerical encoding of the Region column)

The Elbow Method was used to determine the optimal number of clusters (k=3).

Each customer was assigned to one of the clusters based on their feature values.

Cluster 0

Customer IDs in Cluster 0:
C0001
C0004
C0005
C0009
C0011
C0012
C0013
C0018
C0019
C0020
C0021
C0022
C0024
C0026
C0028
C0037
C0041
C0045
C0046
C0047
C0051
C0052
C0053

C0057
C0061
C0064
C0065
C0067
C0068
C0069
C0070
C0073
C0076
C0086
C0087
C0090
C0092
C0093
C0098
C0099
C0101
C0102
C0103
C0105
C0106
C0107
C0108
C0116
C0117
C0118

C0120 C0122 C0123 C0124 C0125 C0126 C0127 C0128 C0129 C0130 C0131 C0132 C0133 C0135 C0137 C0139 C0140 C0143 C0145 C0148 C0149 C0150 C0152 C0153 C0154 C0156 C0159 C0161

C0163

C0162

C0164

C0166

C0167

C0170

C0171

C0173

C0175

C0177

C0179

C0181

C0182

C0183

C0186

C0188

C0191

C0192

C0193

C0194

C0198

C0199

Cluster 1

Customer IDs in Cluster 1:
C0002
C0003
C0008
C0010
C0014
C0017
C0025
C0027
C0029
C0030
C0031
C0032
C0033
C0034
C0035
C0036
C0038
C0039
C0043
C0049
C0055
C0060
C0062

C0071 C0072 C0075 C0077 C0081 C0083 C0084 C0088 C0091 C0094 C0095 C0097 C0109 C0110 C0111 C0112 C0113 C0119 C0121 C0134 C0136 C0142 C0144 C0147 C0151 C0157 C0160 C0165

C0169

C0172

C0174

C0176

C0178

C0189

C0190

C0195

Cluster 2

Customer IDs in Cluster 2:
C0006
C0007
C0015
C0016
C0023
C0040
C0042
C0044
C0048
C0050
C0054
C0058
C0059
C0066
C0074
C0078
C0079
C0080
C0082
C0085
C0089
C0096
C0100

C0114

C0115

C0138

C0141

C0146

C0155

C0158

C0168

C0184

C0185

C0187