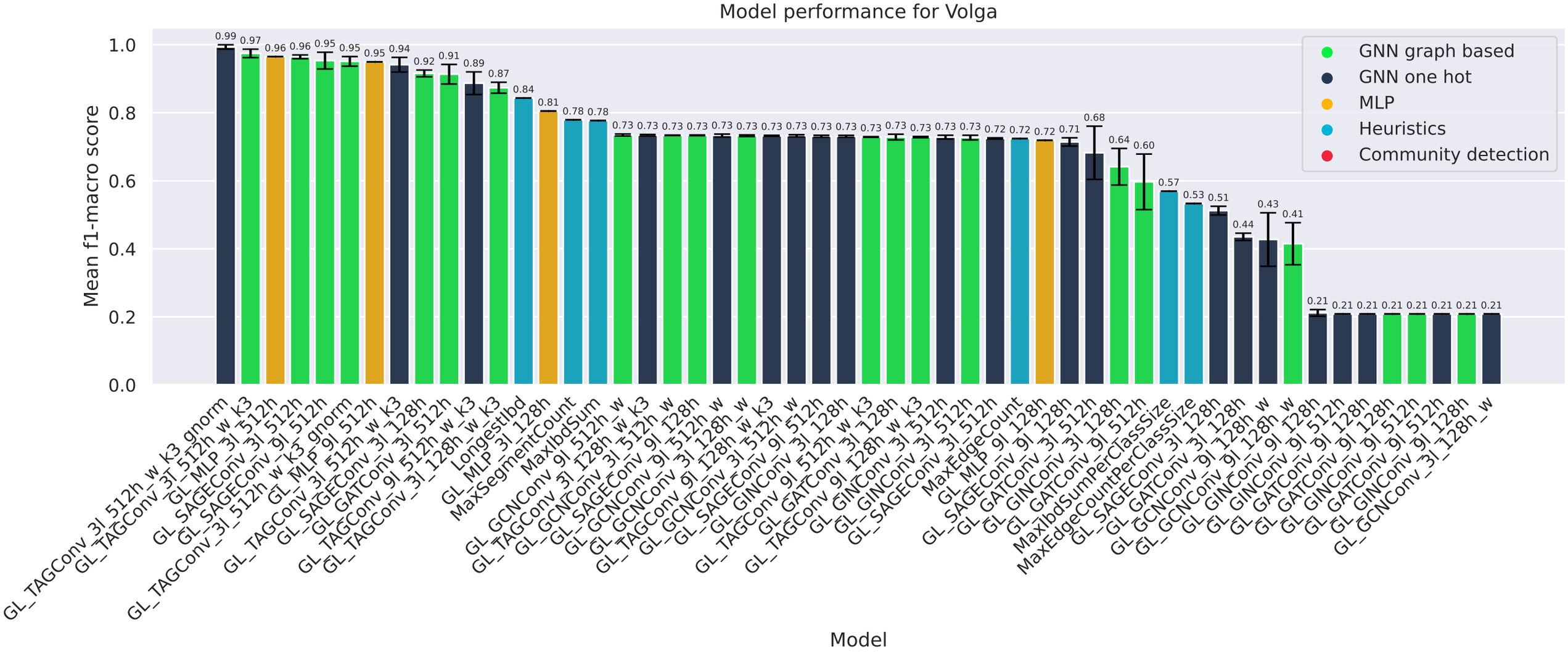
Model performance for Volga
Mean f1-macro score
Model
GNN graph based
GNN one hot
MLP
Heuristics
Community detection
0.0
0.2
0.4
0.6
0.8
1.0
0.99
0.97
0.96
0.96
0.95
0.95
0.95
0.94
0.92
0.91
0.89
0.87
0.84
0.81
0.78
0.78
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.73
0.72
0.72
0.72
0.71
0.68
0.64
0.60
0.57
0.53
0.51
0.44
0.43
0.41
0.21
0.21
0.21
0.21
0.21
0.21
0.21
0.21
GL_TAGConv_3l_512h_w_k3_gnorm
GL_TAGConv_3l_512h_w_k3
GL_MLP_3l_512h
GL_SAGEConv_3l_512h
GL_SAGEConv_9l_512h
GL_TAGConv_3l_512h_w_k3_gnorm
GL_MLP_9l_512h
GL_TAGConv_3l_512h_w_k3
GL_SAGEConv_3l_128h
GL_TAGConv_3l_512h
GL_TAGConv_9l_512h_w_k3
GL_TAGConv_3l_128h_w_k3
LongestIbd
GL_MLP_3l_128h
MaxSegmentCount
MaxIbdSum
GL_GCNConv_9l_512h_w
GL_TAGConv_3l_128h_w_k3
GL_GCNConv_3l_512h_w
GL_SAGEConv_3l_128h
GL_GCNConv_9l_512h
GL_GCNConv_9l_128h_w
GL_TAGConv_3l_128h_w_k3
GL_GCNConv_3l_512h_w
GL_SAGEConv_9l_512h
GL_GINConv_3l_128h
GL_TAGConv_9l_512h_w_k3
GL_GATConv_3l_128h
GL_TAGConv_9l_128h_w_k3
GL_GINConv_3l_512h
GL_SAGEConv_3l_512h
MaxEdgeCount
GL_MLP_9l_128h
GL_SAGEConv_9l_128h
GL_GATConv_3l_512h
GL_GINConv_3l_128h
GL_GATConv_9l_512h
MaxIbdSumPerClassSize
MaxEdgeCountPerClassSize
GL_SAGEConv_3l_128h
GL_GATConv_3l_128h
GL_GCNConv_9l_128h_w
GL_GCNConv_9l_128h
GL_GINConv_9l_128h_w
GL_GINConv_9l_128h
GL_GATConv_9l_512h
GL_GATConv_9l_128h
GL_GINConv_9l_512h
GL_GINConv_9l_128h
GL_GATConv_9l_512h
GL_GINConv_9l_128h
GL_GCNConv_3l_128h_w