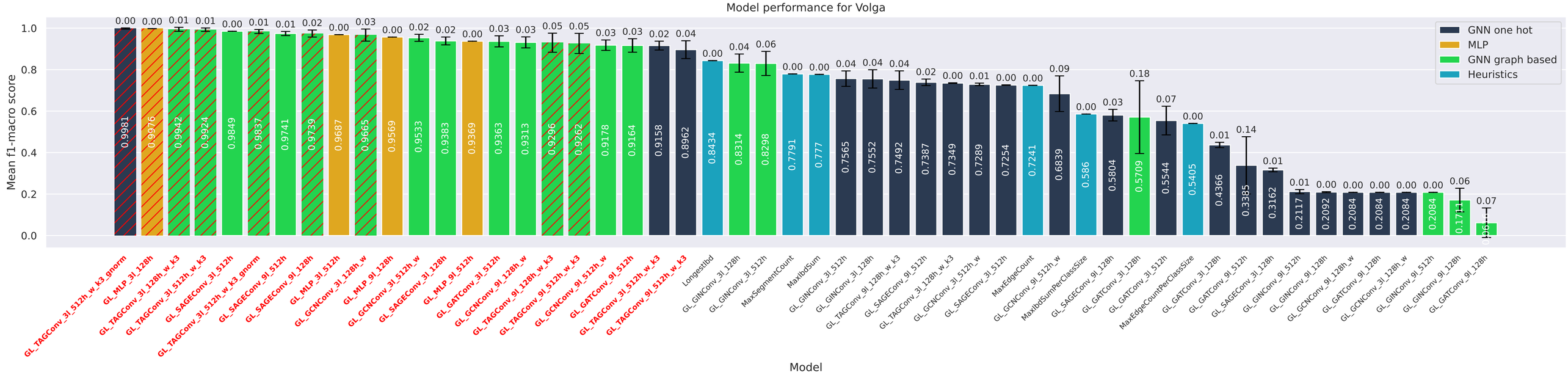
Model performance for Volga
Mean f1-macro score
Model
GNN one hot
MLP
GNN graph based
Heuristics
GL_TAGConv_3l_512h_w_k3_gnorm 0.9981 ± 0.00
GL_MLP_3l_128h 0.9976 ± 0.00
GL_TAGConv_3l_128h_w_k3 0.9942 ± 0.01
GL_TAGConv_3l_512h_w_k3 0.9924 ± 0.01
GL_SAGEConv_3l_512h 0.9849 ± 0.00
GL_TAGConv_3l_512h_w_k3_gnorm 0.9837 ± 0.01
GL_SAGEConv_9l_512h 0.9741 ± 0.01
GL_SAGEConv_9l_128h 0.9739 ± 0.02
GL_MLP_3l_512h 0.9687 ± 0.00
GL_GCNConv_3l_128h_w 0.9665 ± 0.03
GL_MLP_9l_128h 0.9569 ± 0.00
GL_GCNConv_3l_512h_w 0.9533 ± 0.02
GL_SAGEConv_3l_128h 0.9383 ± 0.02
GL_MLP_9l_512h 0.9369 ± 0.00
GL_GATConv_3l_512h 0.9363 ± 0.03
GL_GCNConv_9l_128h_w 0.9313 ± 0.03
GL_TAGConv_9l_128h_w_k3 0.9296 ± 0.05
GL_TAGConv_9l_512h_w_k3 0.9262 ± 0.05
GL_GCNConv_9l_512h_w 0.9178 ± 0.03
GL_GATConv_9l_512h 0.9164 ± 0.03
GL_TAGConv_3l_512h_w_k3 0.9158 ± 0.02
GL_TAGConv_9l_512h_w_k3 0.8962 ± 0.04
LongestIbd 0.8434 ± 0.00
GL_GINConv_3l_128h 0.8314 ± 0.04
GL_GINConv_3l_512h 0.8298 ± 0.06
MaxSegmentCount 0.7791 ± 0.00
MaxIbdSum 0.777 ± 0.00
GL_GINConv_3l_512h 0.7565 ± 0.04
GL_GINConv_3l_128h 0.7552 ± 0.04
GL_TAGConv_9l_128h_w_k3 0.7492 ± 0.04
GL_SAGEConv_9l_512h 0.7387 ± 0.02
GL_TAGConv_3l_128h_w_k3 0.7349 ± 0.00
GL_GCNConv_3l_512h_w 0.7289 ± 0.01
GL_SAGEConv_3l_512h 0.7254 ± 0.00
MaxEdgeCount 0.7241 ± 0.00
GL_GCNConv_9l_512h_w 0.6839 ± 0.09
MaxIbdSumPerClassSize 0.586 ± 0.00
GL_SAGEConv_9l_128h 0.5804 ± 0.03
GL_GATConv_3l_128h 0.5709 ± 0.18
GL_GATConv_3l_512h 0.5544 ± 0.07
MaxEdgeCountPerClassSize 0.5405 ± 0.00
GL_GATConv_3l_128h 0.4366 ± 0.01
GL_GATConv_9l_512h 0.3385 ± 0.14
GL_SAGEConv_3l_128h 0.3162 ± 0.01
GL_GINConv_9l_512h 0.2117 ± 0.01
GL_GINConv_9l_128h 0.2092 ± 0.00
GL_GCNConv_9l_128h_w 0.2084 ± 0.00
GL_GATConv_9l_128h 0.2084 ± 0.00
GL_GCNConv_3l_128h_w 0.2084 ± 0.00
GL_GINConv_9l_512h 0.2084 ± 0.00
GL_GINConv_9l_128h 0.1711 ± 0.06
GL_GATConv_9l_128h 0.096 ± 0.07