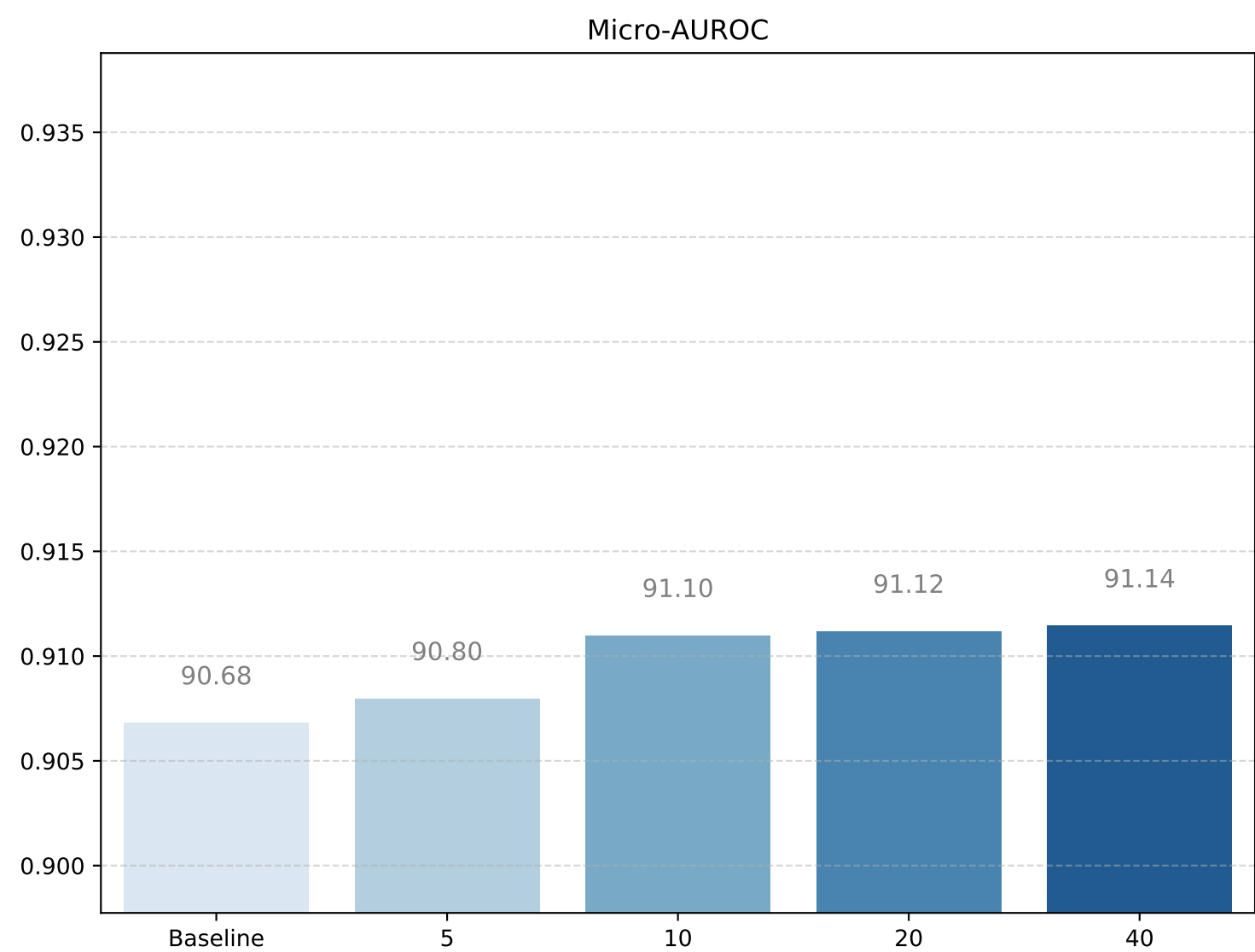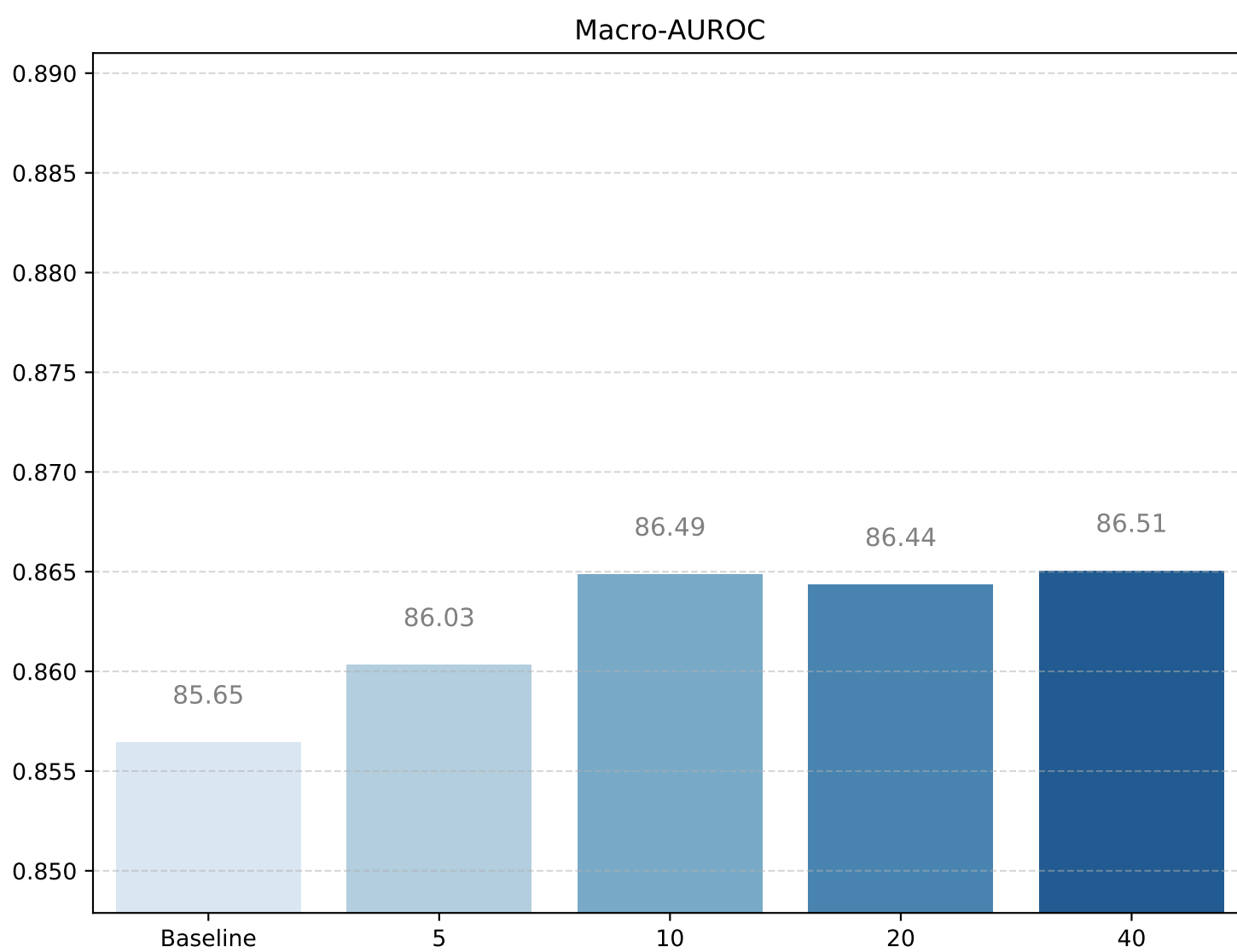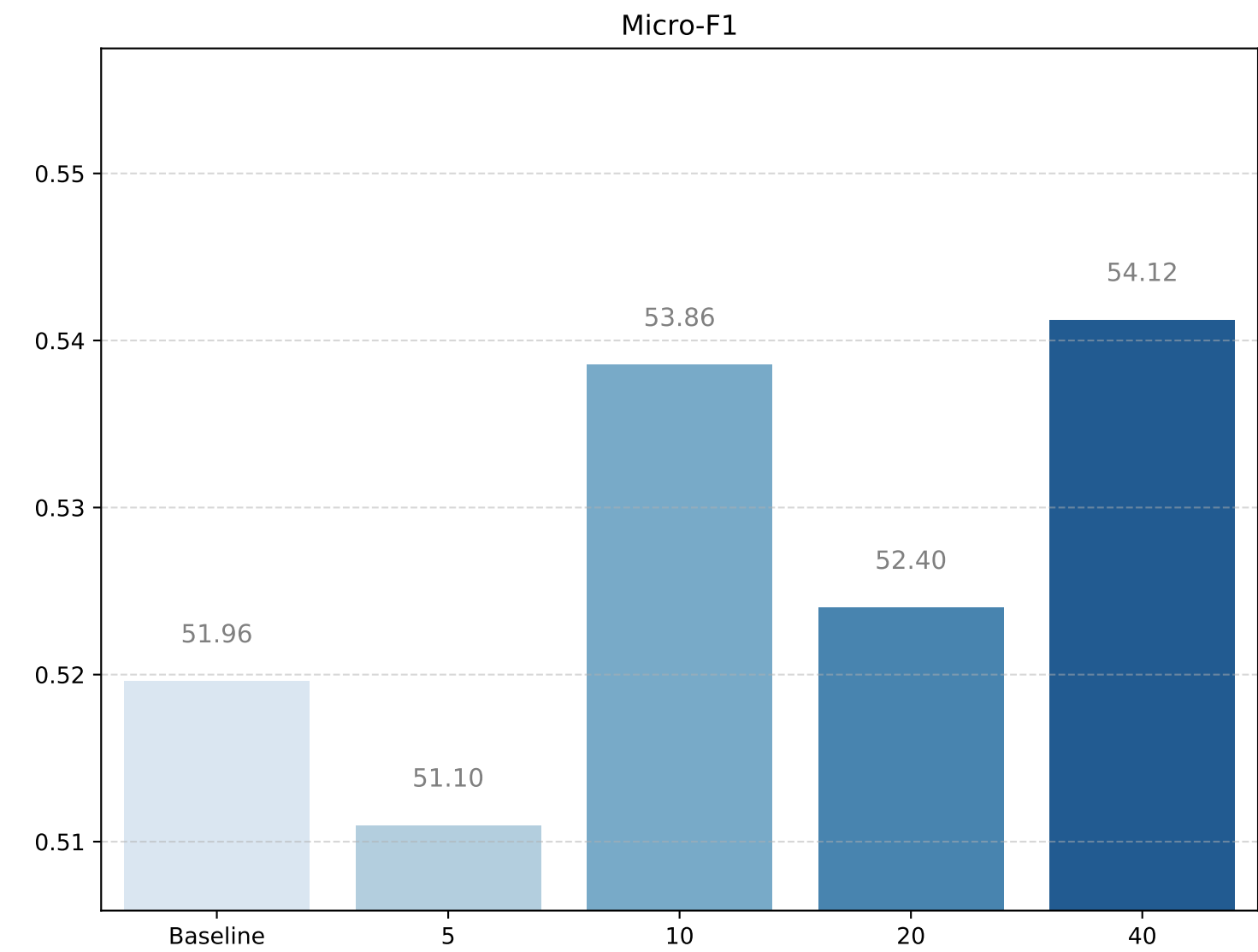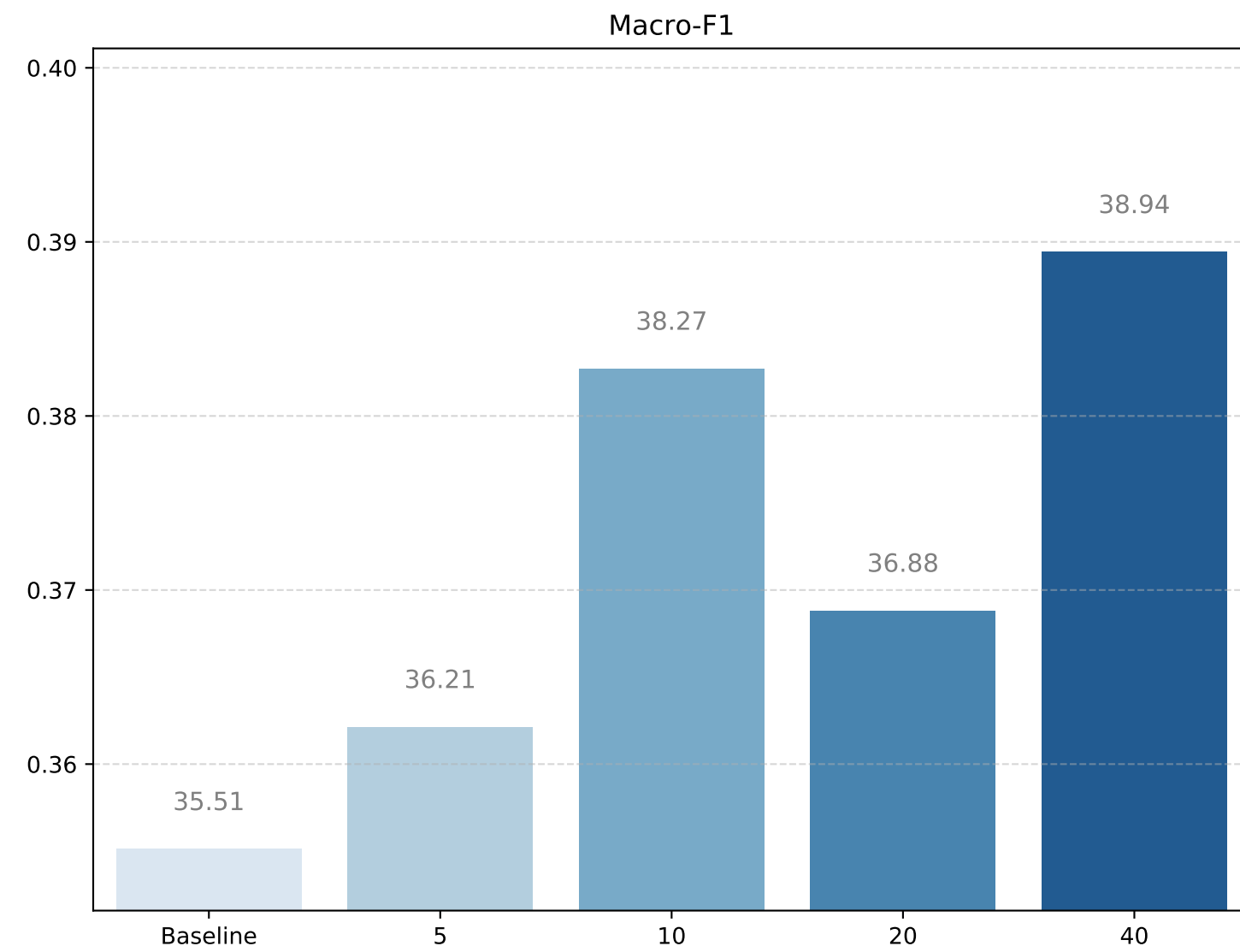Varying number of neighbors