

**Table D4      The effect of graph properties on privacy leakage risk.**

Dataset	$ V_{\text{train}} $	$ E_{\text{train}} $	average degree	degree variance	graph density	network entropy	clustering coefficient	transitivity	network constraint	scale-free exponent	degree centrality	eigenvector centrality	privacy protection
Deezer	28281	214308	6.56	63.14	5.36E-04	3.99	0.1412	0.09592	0.41998	5.03	2.32E-04	1.17E-03	<b>4.5%</b>
Facebook-Page	22470	364358	15.22	697.69	1.44E-03	5.13	0.3597	0.23232	0.31780	3.24	6.77E-04	1.32E-03	<b>8.9%</b>
LastFM	7624	63196	7.29	132.23	2.18E-03	4.03	0.2194	0.17862	0.44297	3.33	9.57E-04	2.00E-03	<b>5.8%</b>

*Notes:* We report the average value of some node-level properties including network constraint, degree centrality and eigenvector centrality.