# Social Network Analysis Report (igraph)

Nodes: 37700, Edges: 289003

## 1. Centrality metrics by ml_target
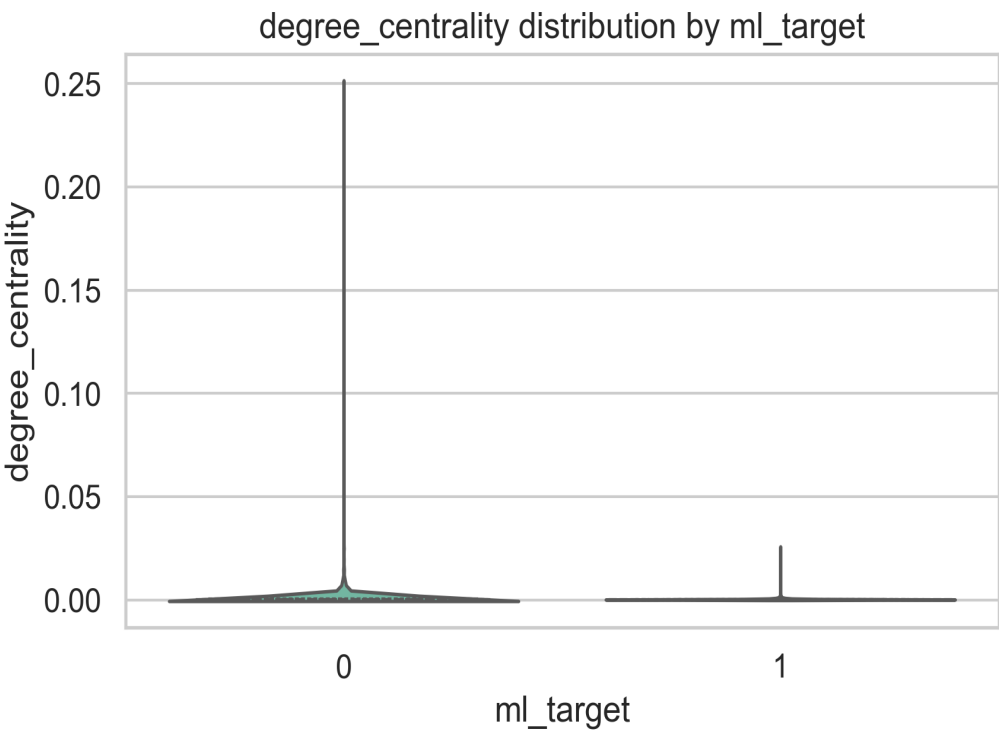
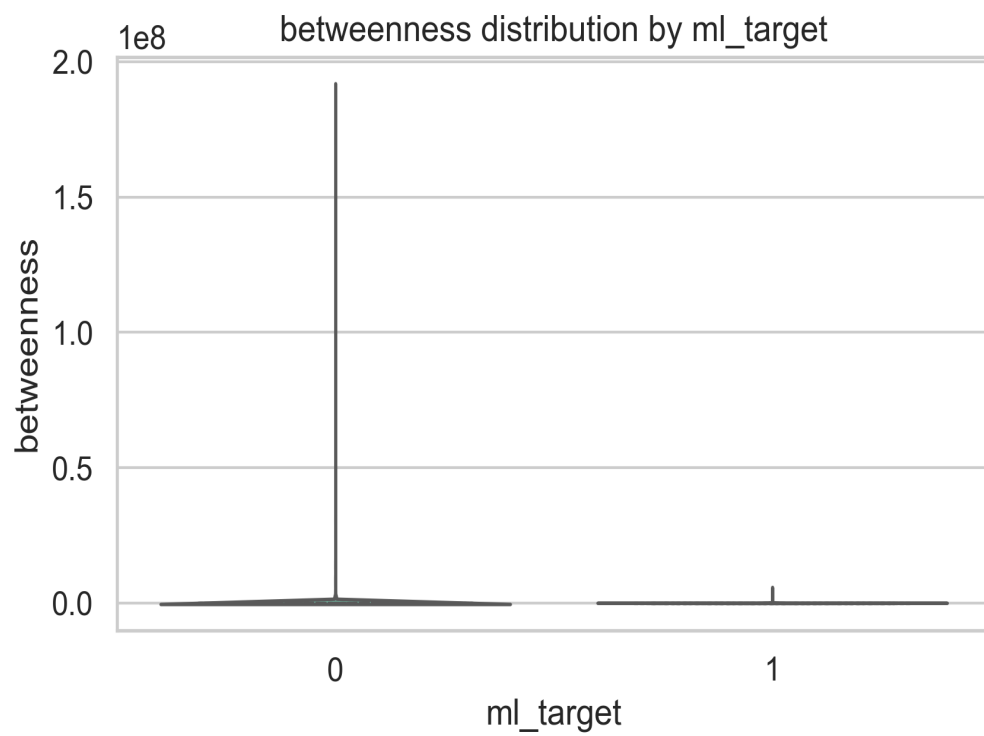| degree_centrality | betweenness | closeness | eigenvector | |
|---|---|---|---|---|
| 0.0 | 0.00046859044219829335 | 50624.91527371294 | 0.31954648259408613 | 0.007867470678911625 |
| 1.0 | 0.00022896328898704853 | 18567.99743625712 | 0.2967877636921176 | 0.003227062774995588 |

## 2. Statistical test results (t-test + Cohen's d)

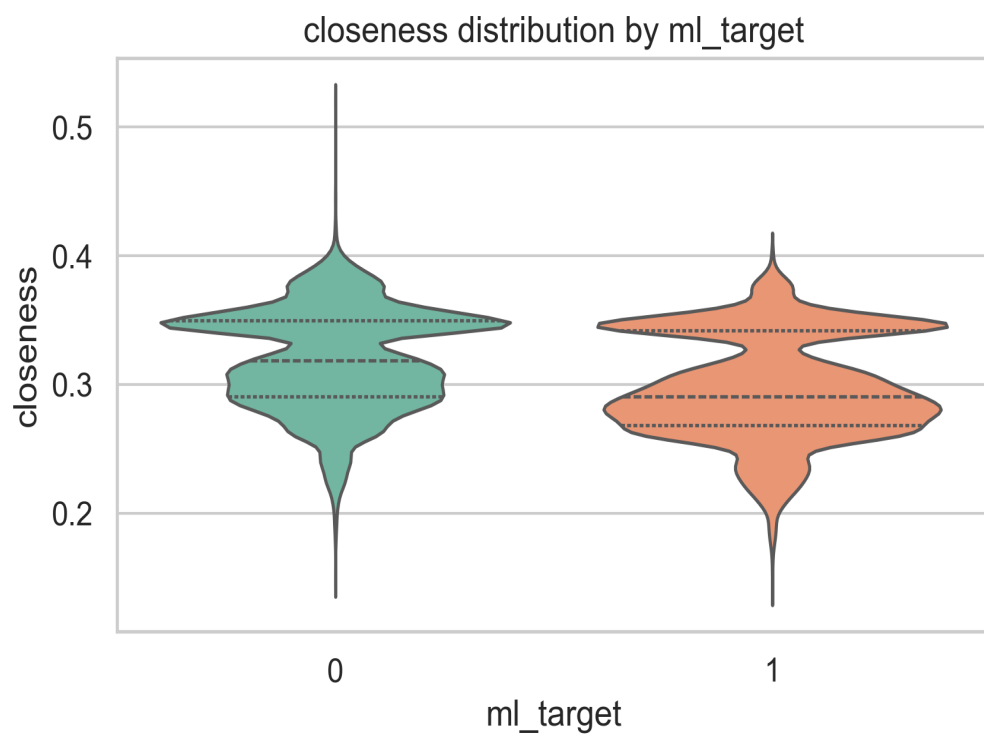| Metric | t-value | p-value | Cohen's d |
|---|---|---|---|
| degree_centrality | 15.084386275493475 | 2.968356554862816e-51 | 0.11195243305414364 |
| betweenness | 3.3098115127666263 | 0.0009347341332737942 | 0.023136822566361875 |
| closeness | 48.19251774332377 | 0.0 | 0.5751210621629514 |
| eigenvector | 46.15827885141522 | 0.0 | 0.36586997394252413 |

## 3. Violin Plots

*degree_centrality*



degree_centrality distribution by ml_target

## *betweenness*

**betweenness distribution by ml_target**



## *closeness*

**closeness distribution by ml_target**

***eigenvector***



eigenvector distribution by ml_target