

Notes on RAPIDS

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Centrality: What Is It?

Before we start, let's remember that "centrality" is about identifying which nodes (or people, places, things) are most important or influential within a network. These measures give you different ways of looking at importance.

1. Degree Centrality

- Simple Idea: How many direct connections a node has.

2. Betweenness Centrality

- Simple Idea: How often a node lies on the shortest path between other nodes.

3. Eigenvector Centrality

- Simple Idea: A node is important if it's connected to other important nodes.

4. PageRank Centrality

- Simple Idea: A variant of Eigenvector centrality but with focus on directed networks, specifically, focusing on links going to a node. It measures how often a node receives incoming links.

5. Katz Centrality

- Simple Idea: Similar to Eigenvector centrality, but also considers the number of links, not only the importance of the links. It measures how much a node is influenced by its neighbors. In contrast to PageRank, it considers all neighbours.

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