1. Learning Objectives

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In this lecture, we will

- Introduce the notion of **centrality** .
- Introduce **degree centrality** and **eigenvector centrality** and study approaches to computing these measures.
- Understand how eigenvector centrality does not work for **directed acyclic graphs (DAGs)** and introduce **Katz centrality** as a better notion of centrality than eigenvector centrality.
- Further introduce **page-rank centrality** to fix issues with Katz centrality.
- Combine inward and outward importances in one iterative algorithm to compute **hubs and authorities** scores of nodes in a graph.
- Introduce **closeness** and **betweenness** centrality and learn how to compute them.

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