



MITx 6.419x

Data Analysis: Statistical Modeling and Computation in Applications

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1. Objectives

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In this lecture, we will

- Learn the definition of a **graph** and different types of graphs we will use.
- Learn what is an **adjacency matrix** and use it.
- Learn the following graph metrics: **connected components** , **degree distribution** , **path lengths** , **shortest paths** , **diameter** , **average distance** , **clustering coefficient** , and **modularity** .
- Learn how these graph metrics capture real-world notions about networks.

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