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Graph Algorithms in

Real-World Problems

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Graph theory studies the relationships between objects and represents these relationships with dots and lines. When all of the vertices and edges are connected together, it is called a graph. Graph algorithms can help in transportation, specifically airline scheduling, by using graph theory to calculi a minimum flow to cover all of the vertices of all of the cities they service, which can be used to find the minimum number of crew members needed to operate all of the flights. Graph algorithms also help with social media marketing by assigning vertexes to each person and their family members and friends. You can then split all of these people into smaller groups, known as communities, based on shared interests and then target your social media advertisements towards specific communities.

Sources:

*Graph theory and its uses with 5 examples of real life problems*. (n.d.). Xomnia. https://www.xomnia.com/post/graph-theory-and-its-uses-with-examples-of-real-life-problems/