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The area of constrained clustering has been extensively explored by researchers and used by practitioners. Constrained clustering formulations exist for popular algorithms such as k-means, mixture models, and spectral clustering but have several limitations. We explore a deep learning formulation of constrained clustering and in particular explore how it can extend the field of constrained clustering.

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The constraints are usually expressed as pairwise statements indicating that two items must, or cannot, be placed into the same cluster. Constrained clustering algorithms may enforce every constraint in the solution, or they may use the constraints as guidance rather than hard requirements.

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The constrained clustering algorithms developed so far mainly use these constraints in two ways (Davidson and Basu, 2006). One way is to use them as background knowledge during data partitioning and integration.

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In computer science, constrained clustering is a class of semi-supervised learning algorithms. Typically, constrained clustering incorporates either a set of must-link constraints, cannot-link constraints, or both, with a Data clustering algorithm. Both a must-link and a cannot-link constraint define a relationship between two data instances.

Constrained clustering - Wikipedia
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