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CMSI 402

**Verbal Description**

GRNsight is a web application and service for visualizing gene regulatory networks. It allows for the uploading of data matrixes outputted by GRNmap, a related software that simulates how genes change over time. Similar programs such as Cytoscape and Gephi work with very large networks and can be difficult to learn. GRNsight specifically works with gene regulatory networks that have a relatively small number of nodes and edges. They also both require a download and install. GRNsight is web-based, requiring only a web browser. The end user currently is a systems biologist working with gene regulatory networks. However, GRNsights functionality can be extended to work with any data that can be visualized as a matrix. A small team of developers at Loyola Marymount University performs maintenance and updates to the application.

**Justification**

This project is appropriate for the class for a few reasons.