

Project: Genomic data analysis and visualization GUI

Analysis of a genomic data often involves pre-processing, quality control, normalization, feature selection and classification and differential expression analysis. Many methods exist, however, the best technique depends on the dataset. Therefore, it is often required to try different techniques to select the one that works best for a given dataset.

This project involves development of a user-interface for data visualization, classification and feature selection for various genomic data. It will require implementation or use, if already implemented, of various data analysis techniques using Matlab. Students with a knowledge of pattern recognition or datamining and an experience with Matlab are encouraged to apply.

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