

CSE 527 Projects

Projects can be done individually, or in small groups. Large groups are also okay, but often require additional effort to organize and divide the work. Groups combining people from different fields are particularly encouraged.

Choices for the project include, but are not limited to:

- **Literature review:** Read 3-5 papers on a coherent topic, and report on them.
- **Implementation:** Read 1-2 background papers, implement the algorithms (or find existing software which implements the algorithms), find some test data, and report on the results.

Each group should send me a paragraph describing their topic, the initial papers, and the implementations and test data (if applicable). Use the course email list (*cse527@cs.washington.edu*) to brainstorm topics and find partners.

During finals week, hand in a paper (approximately 5 pages) describing the project, and give a 20-30 minute presentation.

Some ideas:

- Compare Gibbs and MEME: literature review or test on some data
- Gibbs greedy vs. sampling. Is greedy better or worse?
- Other approaches for functional classification instead of k -NN
- Microarray normalization and/or evaluation of normalizations. Artifacts often appear in microarray data. How can we best get rid of them?
- Alternatives to “Figure of Merit”.
- Try your favorite algorithm on your favorite organism
- Many others possible, too . . .