

Report on Project 2

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Status of project

1. We have implemented both the Viterbi algorithm and the forward-backward algorithm with success.
2. We use log space in the Viterbi algorithm and scaling in the forward-backward algorithm to avoid underflow problems.
3. In addition we have played with the limited memory approach and only saving \sqrt{N} columns in memory for both viterbi and forward-backward and reconstructing blocks as needed.

Validation of program

We have used the provided test data to validate our implementation, and all numbers and sequences computed by our program agree with the provided test output files.

Source code

Source code is available at github : <https://github.com/dalgaard/MLiB/tree/master/project2>