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PROJECT LOG - WEEK 4 AND 5

This is a combined log of my work for week 4 and 5. Last weeks submission missed the deadline

What I wanted to learn over these two weeks

My priority over this period was completing research of probability theory and Markov models to an acceptable level and developing, training and running a basic Markov chain.

Start work on preliminary project proposal, complete Gantt chart for projects duration

I met my supervision at the beginning of week 5 to present my work and discuss the project further. Throughout the meeting we discussed xyz and Lapack/TNT library.

paper suggested by mick

Tasks completed

The following tasks were completed this week

1. Built Markov Chain which generated MIDI information
 1. Order one Markov Chain
 1. Matrix operations
 2. Use of TNT library for multi-dimensional arrays
 - 3.
 2. MIDI
 - 3.
2. Preliminary project report
 1. Read university london guide and Dawson 09 Student project guide
 2. Finished gantt chart
 3. Produced report
3. Probability theory

4. Markov models

1. Hidden markov model
2. Something else

Week 6 Plan

Develop hidden markov model. Research spectrum types, which may be suitable, how they work and the resulting complexity implications for the main project potentially build own version of look for efficient open source libraries perhaps. Further investigation of previous work in music information retrieval systems work (casey)

1. book references
2. paper suggested by mick