FYP Planning Form

Student Name & ID: Fan Yuang& 1155124596

Project title: A Machine Learning Approach to Building Index Structures

Instructions: This form is for each student to specify the tasks he or she plans to undertake for the FYP project at the beginning of a semester. Please clearly specify the nature of the task and the expected achievements up to the midterm and the final. Please complete the form using Microsoft Word and add rows if necessary.

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| Task | Expected achievements by the midterm | Expected achievements by the final |
| Apply different methods on 1-d data and compare their time efficiency on some synthetic data | Implement the traditional methods(hash table, binary search after sorting etc.) and the trick method(apply a linear search for the data which obeys some special distributions), and then test their time efficiency on some synthetic data. | Read the corresponding paper (LISA).  Try to apply it in the toy example given by the professor, i.e., training a machine learning model to predict the position instead of using a formula.  Compare its time efficiency with the methods before. |
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