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EMT-678-WS: Big Data Technologies

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**Term Paper Outline**

1. Abstract
2. Introduction
   1. Shortcomings of the American Healthcare System
   2. Specific Inefficiencies
      1. Inefficiencies Unique to American Healthcare System
      2. Inefficiencies Common Amongst National Healthcare Systems
3. Disparate Datasets in the American Healthcare System
   1. Clinical Data
   2. Research and Development Data
   3. Cost Analysis Data
   4. Patient Sentiment Data
4. Modern Methods of Data Aggregation
   1. NoSQL and RDBMS
   2. Knowledge Graphs
   3. Large Language Models
5. Systems Made Possible by a National Aggregated Healthcare Database
   1. Predictive Healthcare Systems
   2. Preventative Healthcare Systems
6. Leapfrogging
   1. Other Instances of Leapfrogging Technologies
   2. Ingredients for Leapfrogging
   3. American Healthcare is Poised to Leapfrog
7. Conclusion