METHODOLOGY

This research is a type of Exploratory research, which relies on secondary research techniques such as reviewing the literature or available data. In this work I will utilize both quantitative and qualitative data collection methods, but it is rooted in a qualitative epistemological position that recognizes the importance of locating the research within the field of privacy preserving big data analytics.

5.1. DATA COLLECTION
Data collection will consist of user surveys, interviews with data managers and IT experts. Majority of the data will be collected from renowned journal, research papers and scientific subject-specific online forums like GitHub, Stack-overflow and tutorials point etc.

5.2. RESEARCH APPROACH AND DESIGN
Several methods are used to carry out the above research work, ranging from simulation to proof of implementation of the concept. The following approaches will be specifically used in each of the research stages.

Define problem statement: On the basis of research interests, I have identified various technologically challenging issues in the field of data privacy in Big Data Analytics.

Identify objectives in lieu with problem statement: based on the problem statement, set of objectives to be met to mitigate technical challenges in privacy preserving Big Data Analytics are identified.

Conduct a comprehensive literature survey: I intend to conduct a detailed literature survey to gain access to identify the limitations in existing privacy preserving mechanism. Comparisons of existing methods and their performance are studied in detail.

Selection of tools and technologies that synchronize with ideas: different concepts of Big data Analytics can be studied, implemented and analyzed using simulation tools.
Implement the work using appropriate tools: once the tools have been decided on different requirements, such as different data analysis tools and data storage technologies used in Big Data Analytics, performance assessment work can be carried out.

Publish papers in renowned International Journals and Conferences: Publishing our findings in research papers is a key part of our work.

Thesis writing and reviews: I plan to start writing at this stage, as a considerable amount of work including publications will be completed. I will also review my thesis by the guide as the work progresses.

Prepare PPT slides to present the work: In this stage PowerPoint slides are created and reviewed to present the final research work.

6. WORK PLAN
The research work has the following milestones:

1. The initial research phase involves a thorough examination of the existing literature to understand the problem.
2. Research design and the research tools are identified for the collection and analysis of data.
3. Summary of the research work is carried out.
4. Data collected will be analyzed and interpreted.
5. Research findings are discussed and performance is evaluated
6. Thesis is finally drafted.