**Name:** *Harkeerat Singh Sawhney*

**Bachelor Project:** *Analyzing and Mitigating Information Pollution and Hallucinations in Children's Online Search Behavior: A Comparative Study between Google and ChatGPT*

**Progress Report:**

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| Activity Name | Duration (Weeks) | Status | Notes |
| Literature Review and Definition of Key Concepts:   * Review Literature on information pollution and hallucinations in the context of only search behavior of children. * Define the key concepts related to information and hallucinations. * Going over the material provided on Information Pollution | 2 | Completed |  |
| Creating Tools for Collection of Data:   * Collect responses from conversations from ChatGPT using already tested queries as prompts. * Collect a dataset of search results from Google API using the same children queries as the tested queries. * Create an API to collect results from ChatGPT. * Create an API to collect results from Google. | 2 | Completed / Delayed | * There are 2 types of queries. One is a Tested Query which is like a conversation to understand more about Information Pollution and Hallucination in Children Online search Behavior. Another is Children Queries which are collected from children. * API creation for ChatGPT is still in progress and almost done |
| Data Collection and Analysis on Tested Queries:   * Clean and preprocess the collected data from tested Queries. * Collect Data from Google with given Children queries. * Collect Data from ChatGPT with given Children queries. * Start the development of functions to compare the results between ChatGPT and Google results. | 2 | In-Progress | * Going to Create a likelihood function to compare similarity between ChatGPT and Google results. |
| **Identification and Classification of Information Pollution and Hallucinations:**   * Identify and classify the patterns of information pollution and hallucinations in children's online search behavior based on the data analysis. * Propose a classification model for information pollution and hallucinations in children's online search behavior. | 2 | Planned |  |
| **Development of Possible Solutions along with Tools:**   * Propose possible solutions to mitigate the identified patterns of information pollution and hallucinations in children's online search behavior. * Evaluate the effectiveness of the proposed solutions. | 2 | Planned |  |
| **Conclusion and Report Writing:**   * Summarize the findings of the project. * Write the final report and prepare the presentation. | 2 | Planned |  |