Name:

Harkeerat Singh Sawhney

Advisor's Name:

Dr Monica Landoni

Project Title:

Investigating Information Pollution and Hallucinations in Children's Online Search Behavior

Project Objective:

The objective of this project is to investigate and classify the occurrences of information pollution and hallucinations in children's online search behavior. The project aims to analyze search results retrieved from Google APIs and compare them with responses generated from conversational AI models like ChatGPT. By doing so, the project seeks to identify and classify the information pollution and hallucination patterns in children's online search behavior and propose possible solutions to mitigate them. The project also aims to investigate whether ChatGPT yields more pertinent outcomes compared to conventional methods of browsing, such as using Google.

Project Plan:

Week 1-2: Literature Review and Definition of Key Concepts

- Review literature on information pollution and hallucinations in the context of online search behavior

- Define the key concepts related to information pollution and hallucinations

Week 3-4: Collecting Data

- Collect responses from conversations with ChatGPT using children's queries as prompts

- Collect a dataset of search results from Google or Bing APIs using the same children's queries as input

Week 5-6: Data Preprocessing and Analysis

- Clean and preprocess the collected data

- Analyze and compare the data from ChatGPT and search results using different metrics

Week 7-8: 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

Week 9-10: Development of Possible Solutions

- 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

Week 11-12: Conclusion and Report Writing

- Summarize the findings of the project

- Write the final report and prepare the presentation.

*the project plan will most likely change along the following weeks as this is a research project