1. Title
   1. Feedback on Effective Argumentative Writing
2. Problem Statement
   1. Argumentative Writing is a critical skill for a student to foster throughout their academic career. It is a method for students to organize and present analytical conclusions to persuade the audience. This type of skill teaches students to evaluate conflicting claims and assess testimonies. At the same time, it develops students to critically think and logically express their opinions in a scholarly fashion. Such skills should be reinforced with feedback so that students can consistently improve their argumentative writing skills. However, there is a lack of manpower for teachers to constantly read an essay and give feedback. Additionally, the resources available pertaining to Black and Hispanic students disproportionately impact their writing skills to be below the normal range compared to their peers. Although there are many automated writing feedback tools available, many of them have limitations within argumentative writing. These tools fail to assess the caliber of student’s argumentative format such as the elements of an argumentative writing. The tools that are available also are inaccessible to underserved schools due to the cost. The objective of this project will be to evaluate and assess student’s writing into three categories: effective, adequate, or ineffective. Our model will be trained on data that represents argumentative writings from 6th to 12th grade in the United States. With automated feedback, students will be able to get instant reports of their writing which will allow students to get more practice and elevate their writing skills.
3. Motivation:
   1. There are numerous AI tools for writing feedback, but most focus on the grammar and syntactic structure of the writing. Although there are sufficient feedback writing tools out there, there are still limits to how effective the tool is. A significantly impactful feedback tool should be able to evaluate the quality of the writing such as how the student organizes the paragraph bodies, how effectively they present the evidence, and the way the student develops their idea into words. This type of AI tool will be beneficial to students as they will get insight on how effective their argumentative elements are. Moreover, this would be an alternative way for teachers to grade writing tasks and speed up the process. Students generally do not get enough practice and feel confident in their writing abilities because the time it takes to receive feedback on their paper takes too long. This tool will be able to help students practice their writing on their own.
4. Related Works:
5. Methods:
6. Srihari Inukurthi and Jason Lee
7. Timetable
   1. Progress report is due 10/12
      1. Roughly have 5 weeks to work on it before the report
   2. Project is due 12/05
      1. Roughly 10 weeks to finish the project (Meet once a week or twice a week if need to and work on it for at least 2 hours)
8. NOT declaring this project as MS degree requirement