Weekly Progress Report - 8

Section 1: Implementation/development progress

This week I created a proof of concept Gantt chart in google sheets. The Gantt chart contains all the essential information required such as task, phase, assignee, and duration. I took the required tasks from the proposal and placed them into the Gantt chart. I was also able to successfully run the CodeSensor python script on the Git repository and develop a more comprehensive understanding of how source code is converted to AST format. Lastly, I collected some code samples in c from CWE containing a buffer overflow vulnerability.

Section 2: Issues and Challenges

Initially, attempting to get the CodeSensor python script running was rather difficult due to the complexity of the underlying logic. I fell a bit behind in the implementation of the data preprocessing phase. I did not have the time to explore the tools for converting AST to training set format.

Section 3: Implementation Goals

My goal before our next client meeting is to move our Gantt chart data into a specialized tool for managing milestones such as Jira, Git Milestones, or Zenhub. I will help Siqi complete updating the Git repository home page (README.md) and wiki to contain tools, papers, and links to other repositories. I will devote most of the coming week to understanding the tools for converting AST to the training set and how data is further processed, so I could contribute more to the implementation of the final prototype.