

Which tool(s) did you use?

I used Cursor for this portion of the assignment.

If you used an LLM, what was your prompt to the LLM?

I first copied and pasted the implementation description into the chatbox and then put this as my own instructions to the LLM:

This is the description of the assignment. I already did my own implementation which are in the files FamilyTree.py, Person.py, and PersonFactory.py. Try not to make your code like mine. I do want you to make three new files with the same three class ideas and do your own version of it. Please name the files differently so it is obvious as to which one is the AI's version and which one is mine.

What differences are there between your implementation and the LLM?

The LLM made private attributes in the person class using @property accessors, while I made everything public. Along with that, the LLM created mutator and accessor methods while I did not. The LLM also created separate loading methods in the person factory class for all of the different csv files, where each csv file had its own method, making it easier to read. It also did some of the tasks that the grad students were assigned to do, even though I am an undergraduate student, however I should've prompted the LLM that it didn't need to do the grad requirements. In the family tree class, it uses bootstrap() instead of __init__() for setup. It also created class constants for the root names and the cutoff year. They also don't use a deque() but just a regular list for BFS. The LLM's comments and documentation is a lot tidier than mine.

What changes would you make to your implementation in general based on suggestions from the LLM?

I would use the encapsulation suggestions from the LLM and apply it to my implementation, along with their documentation style.

What changes would you refuse to make?

I would refuse some of the changes in the family tree class, where it uses a regular list instead of deque() since the time efficiency is much slower by a noticeable amount.