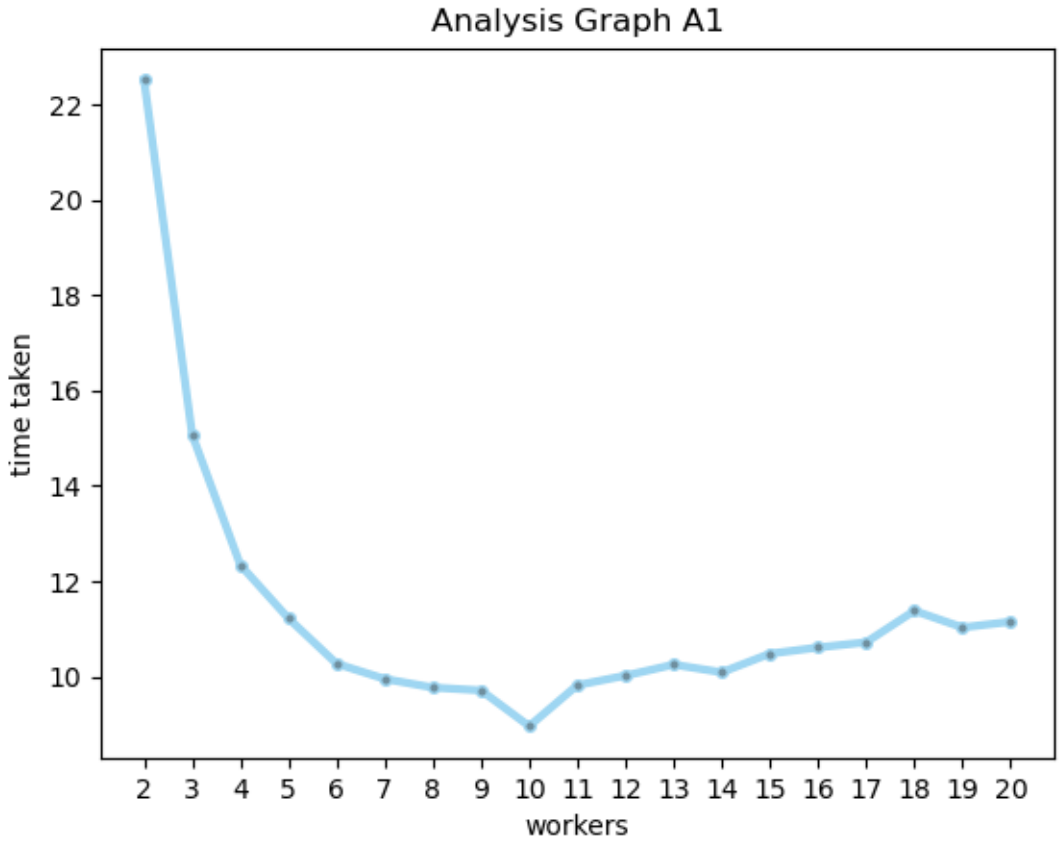
Report Analysis A1



The above graph displays the time taken by different number of workers in T3 implementation for Q1.

We can see that the time taken drops drastically when the number of workers is between 2 and 10. This behavior is appropriate as greater number of processes are running parallelly which helps to split the dataset and increase the performance.

However, it also shows that when the worker size is increased after 10, the time taken is almost the same but keeps on increasing with increasing worker size. This could have been caused by the python interpreter, as it needs to set up the underlying resources for such large number of processes. This results in increasing the time taken by the workers. Thus, it can be concluded that with processes, it's better to look around and find the ideal size of workers that would have the least cost for setting them up.