**Report on the Research Internship**

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| 8.05.2024 | Did the data preprocessing in a different way, first I had don't it for 2D Unet and created individual slices. But this time I'm feeding the 3D data to the model. It is a 3D Unet model |
| 9.05.2024 | Tried training the model, came across errors. |
| 10.05.2024 | The error is persisting, even though I did a few optimizations to my code, it's a huge dataset and it's taking up a lot of memory |
| 13.05.2026 | Tried various methos such as scaling and checkpoints, but none seem to work on it. |
| 14.05.2024 | Kept searching for different methods to optimize memory |
| 15.05.2024 | Continued the same trials |
| 16.05.2024 | Continued the same trials |
| 17.05.2024 | Implemented it in a different system, with 64 GB ram, but got the same error. A few suggestions were received to reduce memory used |
| 22.05.2024 | Reduced the no. of slices to 30, and also tried to use the segmentation models library for 3d Unet, but some dependencies seem to be missing. |
| 23.05.2024 | Tried implementing pre-defined models. Took from the github repo https://github.com/ZFTurbo/segmentation\_models\_3D/blob/master/segmentation\_models\_3D/models/unet.py |
| 24.05.2024 | Ran into a few errors as there were dependency issues, but later got another error related to index. |

This is the daily report that I am updating to my mentor here. On 20th, 21st and 22nd od May I did not work on the project as I was studying for internals. Currently me and my mentor are looking for a solution to an error I came across, which is a tad bit difficult to resolve as I do not understand where the error is generating from.

Thank you

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