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Mentor Diary

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| **Date** | **Discussion and changes made** | **Signature** |
| **21/01/2024** | Discussed about the various topics and project ideas. We told about what we have already decided for our project. She gave us various inputs regarding the pros and cons associated with the project. We took time to decide the project that would really help us in learning something new and will add value to our academics. |  |
| **23/01/2024** | We again went to her with the new ideas that we had previously discussed with her. Then she advised us to make a project that should solve a problem rather than taking up the projects on which people have previously worked on. She suggested us a few of the project ideas on which less or no research or projects are done. We took some time to look into the topics suggested by her. |  |
| **29/01/2024** | We finally choose the topic PCause which is a project based on the disease PCOS, but we were yet to surety about the dataset we will use. We decided to build an application that would help the user to identify whether they have PCOS or not by providing certain numerical data. |  |
| **05/02/2024** | In the next meeting we decided to go for the image data i.e. the ultrasound images from which the user will easily get to know about the disease accurately as the numerical data may include a lot of misleading information and is difficult for the user to give the correct input which will result in wrong output. |  |
| **12/02/2024** | We told about the papers that we have gone through and the issues that we may face is lack of data so she suggested us to go with data augmentation technique to increase the data size and also suggested us to perform feature extraction technique to improve the accuracy.  Also cleared a few doubts regarding the synopsis presentation. |  |
| **20/02/2024** | In this meet we decided the deep learning algorithms we will be using to classify whether the patient is having PCOS or not. We discussed a few of the techniques with their pros and cons. We got our synopsis reviewed and signed. |  |
| **27/02/2024** | We told about the reviews given to us by the panelist. Asked about the few doubts regarding the data augmentation technique and the presentation. Discussed about what all diagrams we need to show in the presentation. |  |
| **18/03/2024** | Told about the problems we are facing in the data augmentation and took the suggestions given by her. Also, we showed the code of PCA and various diagrams that were needed for next presentation. |  |
| **28/03/2024** | Finally got the issues resolved in the code and shown the output of that. Also, shown the changes that were suggested in the diagrams by her. Took a few suggestions to start preparing the software requirement specification (SRS). |  |
| **01/04/2024** | In this meeting, we shown our final presentation after all the changes suggested and the software requirement specification (SRS) and got it signed. |  |
| **15/04/2024** | In this meeting we further discussed about the deep learning techniques we are applying and also resolved our doubts regarding further presentation. |  |
| **22/04/2024** | In this meeting, we shown all the implemented deep learning techniques along with the results and comparative analysis of them. Also, we discussed about the future of the project like writing a research paper on it. |  |

**Mentor Name:**

Ms. Sugandha Sharma