**Minutes of the Meeting of discussion about R&D project with faculty mentor**

Project title: Developing an AI/ML model to predict diabetes

Project ID: 24

Faculty mentor name: Dr. Vikas Upadhyaya

Team member names with Enrolment Number:

1. Agnishwar Raychaudhuri - BT22GDS056
2. Geetika Agrawal - BT22GCS106
3. Jagriti Singh - BT22GCS145
4. Khushi Singh - BT22GCS089

Day & Date of meeting: 03.02.2025

Discussion points:

1. Submission of the "Gaps and Challenges" sheet, followed by a discussion on determining the next steps for the project.

Actions suggested by faculty mentor and team members:

1. The faculty mentor advised the team to identify and finalize 3-4 AI/ML models based on the identified gaps and challenges. Once selected, these models should be trained and evaluated on the finalized dataset to establish baseline performance. Data augmentation should then be applied to the initial dataset, followed by re-training and testing of the same models. If the accuracy difference exceeds 5%, the approach needs to be reconsidered. After obtaining these results, the original and augmented datasets should be merged for comprehensive model training and validation.
2. The faculty mentor also suggested exploring collaborations with hospitals or medical professionals to acquire real-time patient data for further model validation.
3. Additionally, the faculty mentor recommended researching and acquiring relevant paid datasets to enhance model performance. If a suitable dataset is identified, the faculty mentor will discuss potential support or funding with the Dean of Research.

Student members (name with signature) present in the meeting:

1. Agnishwar Raychaudhuri
2. Khushi Singh
3. Jagriti Singh
4. Geetika Agrawal