



## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### APPLICATION FOR ALLOTMENT OF THE TOPIC FOR CS451 PROJECT PRELIMINARY

Group No:18

1. Name and Register Number:

- |                 |            |
|-----------------|------------|
| • ANN MARIYA    | JEC16CS026 |
| • RAHUL M       | JEC16CS092 |
| • MANEESH MANOJ | JEC17CS063 |
| • RASHI M       | JEC17CS079 |

2. Write about Area of Specialization:

Artificial Intelligence:

Artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, unlike the natural intelligence displayed by humans and animals.

3. Topic Selected:

“Cardiovascular Diagnosis Using Federated Learning”

4. Abstract of the Topic:

Cardiovascular diseases stand as the number one cause of death globally, diagnosing the same is a complicated task. Because of data-privacy restrictions, conventional Machine Learning based technologies are not able to achieve the level of accuracy, comparable to a human counterpart. So, we are using Federated Learning an approach that share inferences learned by a decentralized model rather than data using which used to train the model. Heartbeat sounds of the patient is then classified using this model to diagnose the patient.

5. Dated Signature of students:

ANN MARIYA

RAHUL M

MANEESH MANOJ

RASHI M

ALLOTMENT MADE [To be filled by the Guide]

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|------------------------|---|
| 1. Topic Allotted:     | Cardiovascular Diagnosis Using Federated Learning |
| 2. Date of Allotment:  | 29/09/2020  |
| 3. Name of Guide:      | Namitha T N                                       |
| 4. Signature of Guide: |   |

Project Coordinator

H.O.D