

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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

**Group No:19**

**1. Name and Register Number:**

1. SREEKANTH H JEC16CS115
2. JOSEPH JOEL C P JEC17CS057
3. RASMIYA C U JEC17CS080
4. SREERAG R NANDAN JEC17CS099

**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:** Respiratory Diagnosis Using Federated Learning

**4. Abstract of the Topic:**

Respiratory diseases are pathological conditions affecting the organs and tissues that make gas exchange difficult while breathing. Due to a limited number of an experienced pulmonologist, it has been difficult to detect these diseases. Because of data privacy restrictions, conventional Machine Learning based techniques are not able to achieve the level of accuracy, comparable to a human counterpart. So, we are using Federated Learning an approach that share inference learned by an decentralized model rather than data using which used to train the model.

**. Dated Signature of students:**

**ALLOTMENT MADE** [To be filled by the Guide]

**1. Topic Allotted:**

**2. Date of Allotment: 29/09/2020**

**3. Name of Guide: Dr. Vinith R**

**4. Signature of Guide:**

**Project Coordinator H.O.D**