

## **R&D Project**

### **Student Names:**

S. No.	Enrollment No.	Student Name
1	U101116FCS104	SABYASACHI MISHRA
2	U101116FCS037	GAURAV MUNDHRA
3	U101116FCS127	SHUBHANGI GUPTA
4	U101116FCS056	K.NAGA RAVITEJA
5	U101116FCS030	DEEPTONABHO DUTTA

### **Name of the Project:**

Run-Time Conversion of Speech from One Language to Another using Deep Learning

### **Name of the Mentor:**

Prof. Prosenjit Gupta and Mr. Vikas Kumar Malviya

### **Summary of the Project (Not more than 250 words):**

Our project was to implement real time speech conversion using deep learning from one language to another. We implemented the project using machine learning libraries in order to find the short comings so that we get to know how deep learning can rectify it. After noting the short coming we switched to deep learning methods where we could implement speech recognition(used classification algorithm : SVM and clustering algorithm : LSTM) on a smaller dataset and had a prototype which would work for larger datasets. On doing further research we have come up with prototypes for speech translation and speech synthesis. Moreover, we propose  $O(2n)$  mapping model which can ease the whole application and reduce the training time of the model.