**Internship Report**

I am Abhishek Kumar a fifth-year undergraduate student pursuing a Dual Degree in Biological Engineering at IIT Madras.

I am doing an internship at Gyan Data Pvt. Ltd under the guidance of Suresh sir, Sridhar sir, Janaki and Shweta Ma’am from 22nd May to 22nd July 2017. In the first week of Internship, I explored the datasets and technique which I had to use for the problem. After the first week, I worked on mushrooms problem. To predict (poisonous or edible) the unknown mushroom of given attributes, I created a logistic, random forest and SVM model. Then after, I worked on PCA (principal component analysis) to reduce the variable from 23 to 8. I also worked on Random forest model to reduce the variable using the importance of the variable.

In next week, I have to work on another dataset (Hospital Readmissions program).