**Solution Sheet**

1. Which model have you used for probability prediction? Explain your model.

I have used many regression models like Linear Regression,Polynomial,SVM.Random Forest,Decision Tree,Neural Network etc .

1. Which model have you used for Diuresis Time series prediction? Explain your model.

Ans: Given that diuresis of a single person is to be modelled as a time-series.But we donot have the value of diuresis of a person over an extended period of time, we only have diuresis of a person at one point of time.Hence, it is not correct to build a time-series model for each person’s diuresis value individually.We can very justly, hypothesize that treating the diuresis column as a time-series will not be very wrong, since in a well-enough mixed population, all types of people will be present.

Hence I have taken the whole diuresis column of test Data as a time-varying parameter and built time -series models around that.