**Solution Sheet**

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

I have used the random forest regression algorithms with 300 trees. The data is wrangled by encoding categorical data, imputing continuous missing data using KNN imputer with 100 neighbors. There were some missing information in categorical data too but I did not impute those fields but instead filled them with values of previous fields to maintain variability. Since the correlation of almost all the features with target vector was pretty low, I decided to keep most of the features.

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

I have not completed this model as I have not yet studied timer series prediction.