**Solution Sheet**

1. Which model have you used for probability prediction? Explain your model.
2. **Multilayer perceptron** (MLP) is supervised learning algorithm is used here
3. Correlation is applied to the data and some lowest correlated columns are dropped.
4. Data is pre-processed (Label Encoder, One Hot Encoder)
5. Data is standardised using **standard scale**
6. Model is created using MLP algorithm
7. When we observer the data plotted, we see they are non linear hence we need an activation function.
8. Here we have used **relu** as an activation function
9. We found the accuracy
10. Cleaned testing data is loaded
11. The data is pre-processed, standardised and passed to model
12. The output i.e. Infect\_Prob is saved into an excel file with People\_Id