**Solution Sheet**

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

I have used a neural network with following specifications

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Model: "sequential"

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Layer (type) Output Shape Param #

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dense (Dense) (None, 32) 704

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dense\_1 (Dense) (None, 64) 2112

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dense\_2 (Dense) (None, 32) 2080

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dense\_3 (Dense) (None, 1) 33

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Total params: 4,929

Trainable params: 4,929

Non-trainable params: 0

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The model is trained on “mean\_squared\_error” and 21

input\_dimensions neglecting variables like ['people\_ID', 'Region', 'Designation', 'Name', 'Insurance','salary'] using adam optimizer.

Final mean\_squared\_error = 0.0074

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

I used an Recurrent neural network (LSTM model) to predict the Diuresis Time series prediction

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Model: "sequential"

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Layer (type) Output Shape Param #

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lstm (LSTM) (None, 50) 10400

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dense (Dense) (None, 1) 51

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Total params: 10,451

Trainable params: 10,451

Non-trainable params: 0

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The model is trained on “mean\_squared\_error” and 1

input\_dimension i.e previous value using adam optimizer. SInce it is an LSTM network the work is carry forwarded