**DADS401 Advanced Machine Learning**

**Assignment Set – 1**

1. (a) Explain the elements of Time Series Model?

(b) Discuss ARIMA model for forecasting time series.

2. (a) State the difference between double exponential smoothing (DES) and triple exponential smoothing (TES)?

(b) Explain GARCH Model?

3. (a) Write some merits and demerits of using AI.

(b) Explain any three applications of AI in Business Analytics.

**Assignment Set – 2**

4. (a) Explain some challenges or limitations we face with Deep Learning.

(b) Discuss Back Propagation.

5. (a) Differentiate CNN vs RNN.

(b) Describe the concept of LSTM.

6. (a) State the difference between SARSA and Q-Learning.

(b) State the difference between Image recognition and Image detection.

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