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Exp. No.	Name of Experiment	Date of Allotment of experiment	Date of Evaluation	Remarks	Signature of Faculty
1	Exploratory data analysis of time series data.	20/07/2023	27/07/2023		
2	Handling missing values in data using: Forward fill method (Last observation carried forward), Backward fill method (Next observation carried backwards), Linear interpolation, Spline interpolation, Seasonal decomposition, and interpolation.	27/07/2023	03/08/2023		
3	Decompose Time-Series to See Components (Trend, Seasonality, Noise, etc), Dicky-Fuller Test for Stationarity, Remove Trend (Logged Transformation, Power Transformation, Applying Moving Window Functions, Applying Moving Window Function on Log Transformed Time-Series, Applying Moving Window Function on Power Transformed Time-Series, Applying Linear Regression to Remove Trend)	03/08/2023	17/08/2023		
4	To Remove Seasonality (Differencing Over Log Transformed Time-Series, Differencing Over Power Transformed Time-Series, Differencing Over Time-Series with Rolling Mean taken over 12 Months, Differencing Over Power Transformed & Mean Rolled Time-Series, Differencing Over Linear Regression Transformed Time-Series),), Dicky-Fuller Test for Stationarity	17/08/2023	24/08/2023		
5	Implementation of Auto regression (AR) model and using Auto correlation function (ACF) to find the order of AR model.	24/08/2023	14/09/2023		
6	Implementing Autoregressive integrated moving average (ARIMA) model, also implement Auto-ARIMA model.	14/09/2023	28/09/2023		
7	Implementing Random Forest Regressor Model for time series Forecasting	28/09/2023	05/10/2023		
8	Implementing 1D CNN for time series Forecasting	05/10/2023	12/10/2023		
9	Implementation of multivariate forecasting using Vector AutoRegressive (VAR) model	12/10/2023	19/10/2023		
10	Time series forecasting using Recurrent neural network (RNN) and LSTM (Long short-term memory)	19/10/2023	26/10/2023		
11	Open Ended Experiment – BVP dataset	19/10/2023	26/10/2023		