

**RAJALAKSHMI ENGINEERING COLLEGE**  
**[AUTONOMOUS]**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



**RAJALAKSHMI**  
**ENGINEERING COLLEGE**

**AI19642 – TIME SERIES ANALYSIS AND FORECASTING**

**LABORATORY RECORD NOTEBOOK**

Name : .....

Year / Branch / Section : III- AIML

Register No. : .....

College Roll No. : .....

Semester : 06

Academic Year : 2024-2025

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**BONAFIDE CERTIFICATE**

Name : .....

Academic Year : .... 2024-2025. .... Semester : 06      Branch : AIML

Register No.

Certified that this is the bonafide record of work done by the above student in the  
AI19642 – TIME SERIES ANALYSIS AND FORECASTING  
during the year 2024 - 2025.










Signature of Faculty in-charge

Submitted for the Practical Examination held on .....

Internal Examiner

External Examiner

# INDEX

Ex No	Date	Name of the Experiment	GitHub QR Code	Sign
1		Implement programs for time series data cleaning, loading and handling times series data and pre-processing techniques		
2		Implement programs for visualizing time series data		
3		Implement programs to check stationary of a time series data		
4		Implement programs for estimating & eliminating trend in time series data-aggregation, smoothing.		
5		Develop a linear regression model for forecasting time series data		
6		Implement program to apply moving average smoothing for data preparation and time series forecasting		
7		Implement program for decomposing time series data into trend and seasonality		
8		Create an ARIMA model for time series forecasting		
9		Develop neural network-based time series forecasting model.		
10		Develop vector auto regression model for time series data forecasting.	