5.3 Dataset Result and Analysis

EXPERIMENT 1 THIS EXPERIMENT WAS PERFORMED USING DATASET 1 AND LINEAR REGRESSION. THE RESULT OBTAINED ARE SHOWN IN FIG...

v Frame	_	•	•		
Months		Sales_Ad	tual	SalesPredicted	t
1	105			78	-
2	85			79	
3	55			79	_
4	77			79	_
5	23			80	_
6	43			80	_
7	36 42			81 81	
9	120			82	_
10	103			82	
11	94			82	-
12	160			83	_
13	200			83	-
14	90			84	_
15	95			84	
16	56			84	
17	75			85	
18	44			85	
19	64			86	
20	90			86	
21	102			87	
22	108			87	
23	98			87	
24	150			88	
25	95			88	
	X-intercep	t Y-interce	pt RMS	E	
	78.21587	0.42226		06847	
	37	198	93		
	38	100	94		
	39	75	94		
	40	27	95		
	41	43	95		
	, 42	28	95		
	43	97	96		
	44	55	96		
	45	100	97		
	46	117	97		
	47	103	98		
	48	160	98		

Figure 5-4: Predicted data with RMSE error for dataset1



Figure 5-5: Output graph for dataset 1

EXPERIMENT 2 THIS EXPERIMENT WAS PERFORMED USING DATASET 1 AND (Time Series using moving average). THE RESULT OBTAINED ARE SHOWN IN FIG...

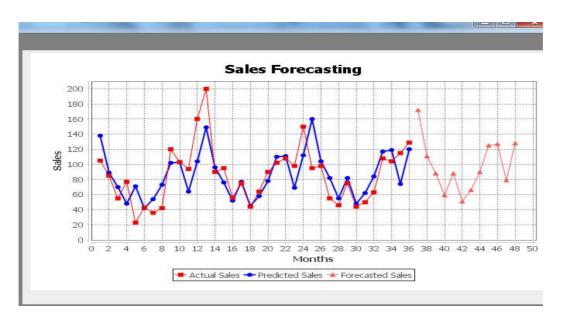


Figure 5-6 : Output graph for dataset 2

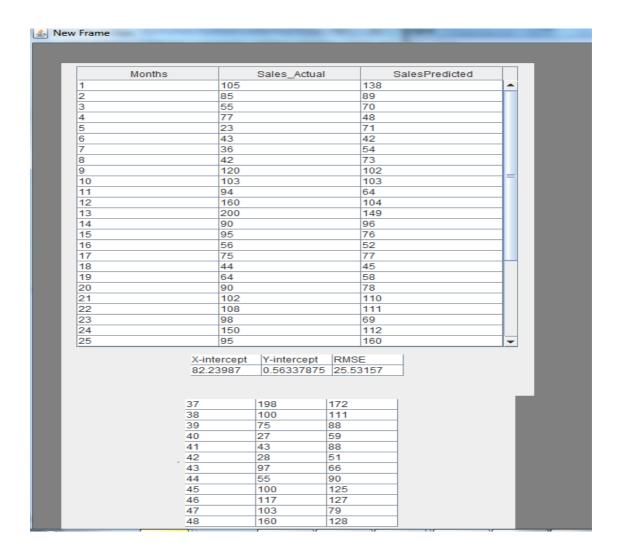


Figure 5-7: Predicted data with RMSE error

On analyzing result given by above two model, it can be concluded that prediction using Time series forecasting is more convincing and accurate to implement than Linear regression model. The RMSE value obtained by implementing Time Series Forecasting is 25.53157 while the RMSE value obtained by implementing Linear Regression is 37.006847.

Linear Regression Model is easy to implement but is not good for prediction.

OUTPUT

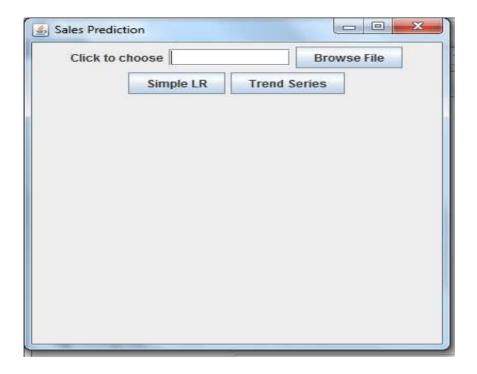


Figure 8 : UI Interface

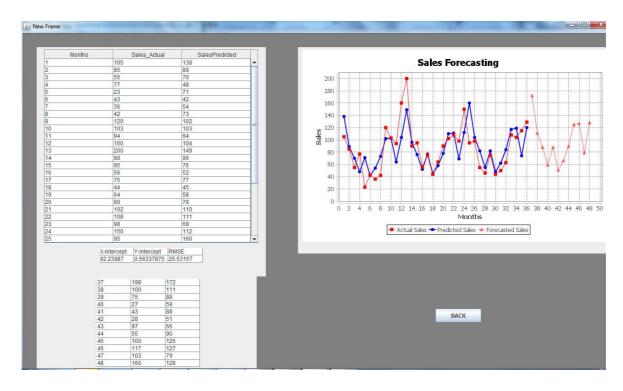


Figure 9 : Prediction Result