Project 1
FINANCIAL FORECASTING

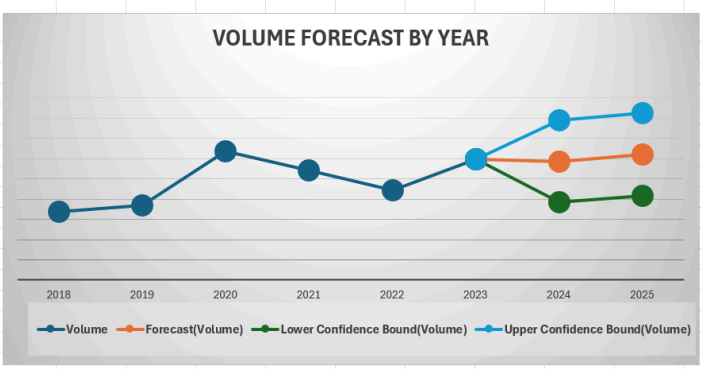
by Om Patel

Objective: Develop a model to forecast financial metrics. Design the structure of the forecasting model in Excel. Use formulas for revenue projections and expense calculations. Using macros to understand VBA. Create charts for visual representation of financial forecasts.

Observations:

VOLUMES FORECAST BY YEAR:

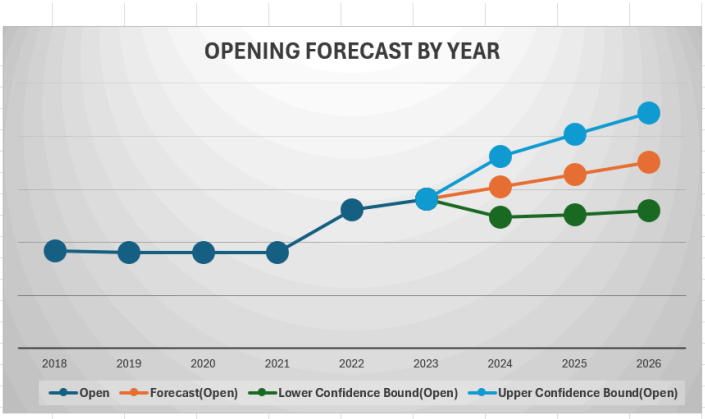
Year	Volume	Forecast(Volume)	Lower Confidence	Upper Confidence Bound(Volume)
2018	17.27628			
2019	17.33973			
2020	17.86885			
2021	17.68219			
2022	17.48767			
2023	17.79235	17.79234973	17.79	17.79
2024		17.77142254	17.37	18.18
2025		17.84279813	17.44	18.25



- The actual volumes for the years 2018 to 2022 exhibit a gradual decrease.
- For 2024 and 2025, specific forecasted volumes are given (17.77 and 17.84, respectively), indicating a stable or slightly increasing trend.
- The data suggests a consistent or slightly increasing pattern in volume from 2023 onwards, with the forecast reasonably accurate for the available years.

OPENING FORECAST BY YEAR:

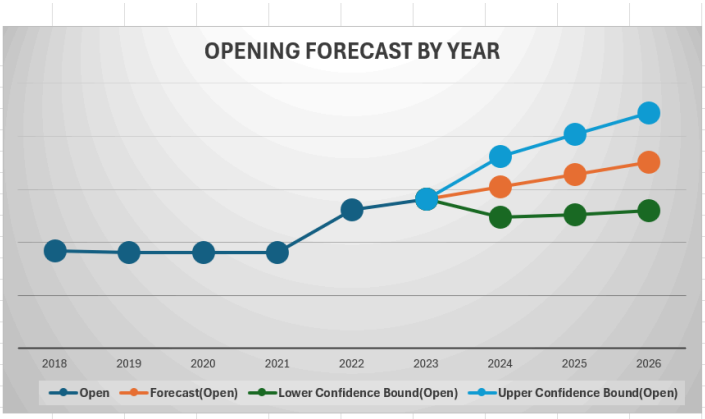
Year	Open	Forecast(Open)	Lower Confidence Bound(Open)	Upper Confidence Bound(Open)
2018	91.8979			
2019	90.40822			
2020	90.20765			
2021	90.25753			
2022	130.3479			
2023	140.8224	140.8224044	140.82	140.82
2024		152.3941058	124.05	180.74
2025		164.1125807	125.96	202.27
2026		175.8310555	129.90	221.76



- The opening values show a relatively stable trend from 2018 to 2022.
- The forecasted opening values for 2024, 2025, and 2026 suggest a consistent increasing trend, with values of 152.39, 164.11, and 175.83, respectively.
- The data indicates a stable period followed by a forecasted upward trend in opening values from 2023 onwards.

CLOSING FORECAST BY YEAR:

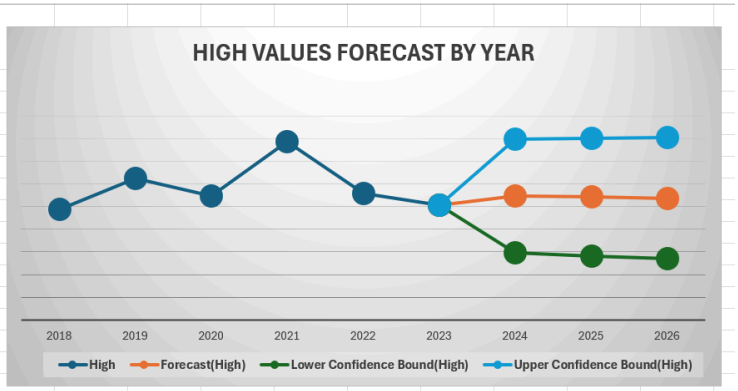
Year	Open	Forecast(Open)	Lower Confidence Bound(Open)	Upper Confidence Bound(Open)
2018	91.8979			
2019	90.40822			
2020	90.20765			
2021	90.25753			
2022	130.3479			
2023	140.8224	140.8224044	140.82	140.82
2024		152.3941058	124.05	180.74
2025		164.1125807	125.96	202.27
2026		175.8310555	129.90	221.76



- Closing values show a fluctuating trend from 2018 to 2022.
- The forecasted closing values for 2024 and 2025 suggest a slight increase, with values of 108.29 and 106.86, respectively.
- The data indicates some volatility in closing values from 2018 to 2022, with a forecasted stability in 2023 followed by a modest increase in the subsequent years.

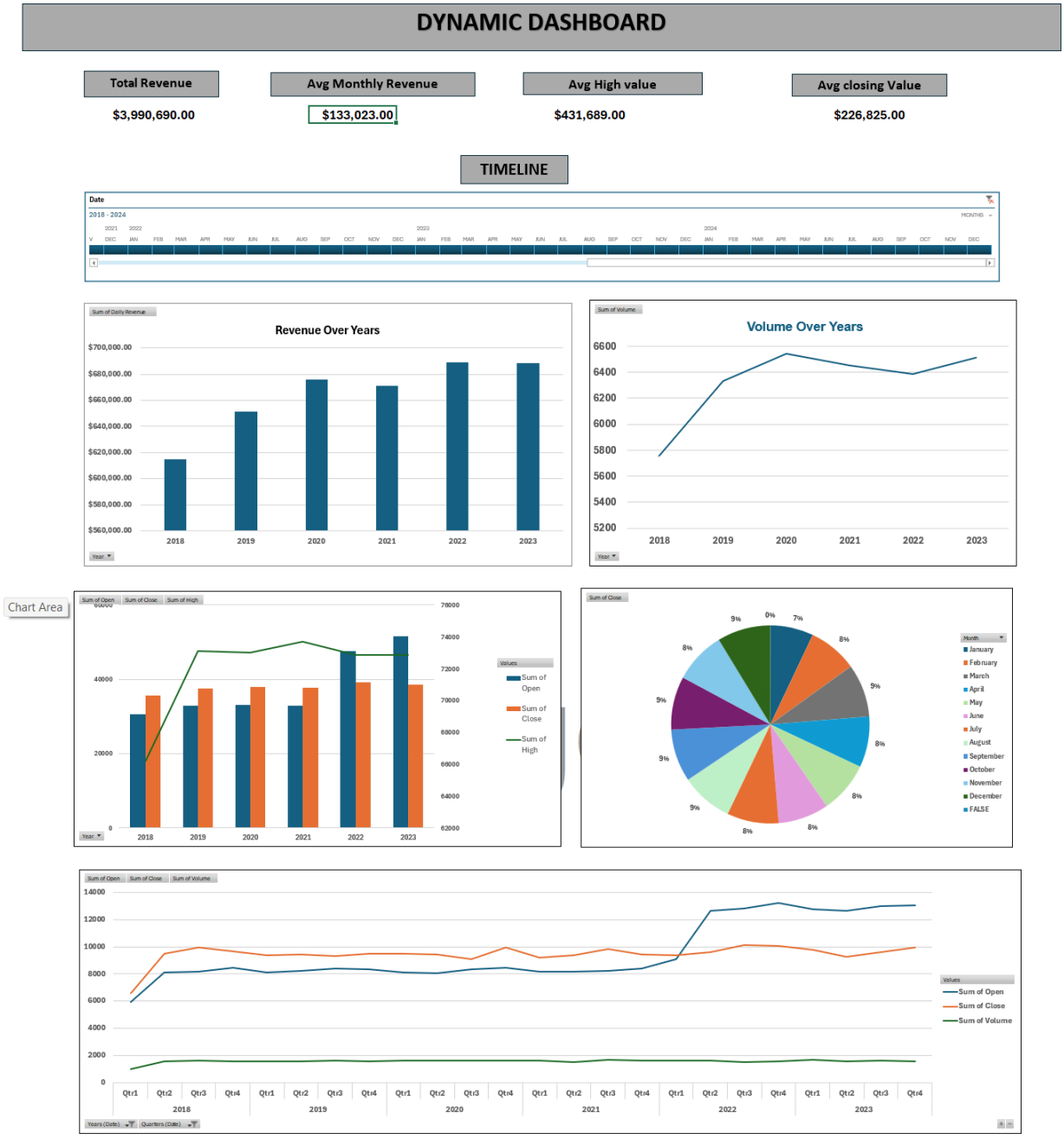
HIGH VALUES FORECAST BY YEAR:

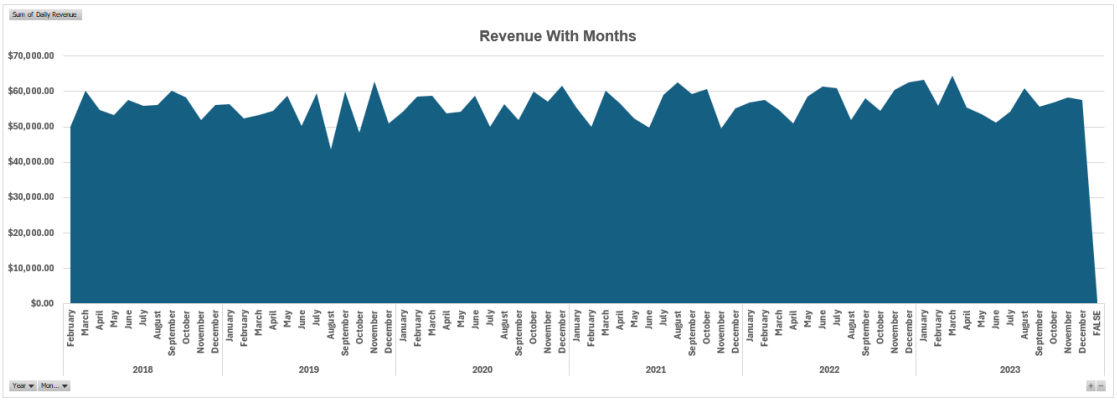
Year	High	Forecast(High)	Lower Confidence Bound(High)	Upper Confidence Bound(High)
2018	198.8589			
2019	200.2356			
2020	199.4727			
2021	201.8521			
2022	199.5589			
2023	199.0738	199.0737705	199.07	199.07
2024		199.472273	196.96	201.99
2025		199.4221961	196.83	202.02
2026		199.3721192	196.70	202.04



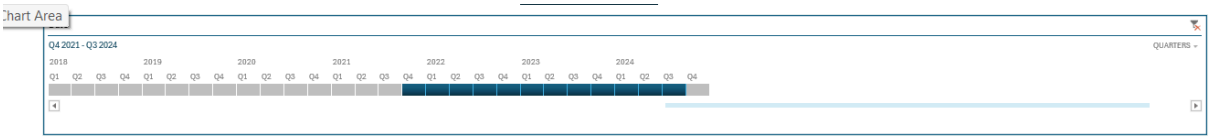
- High values show some fluctuation from 2018 to 2022, with a peak in 2021.
- In 2023, the actual high value matches the forecasted high value of 199.07.
- The forecasted high values for 2024 to 2026 suggest relative stability, with values of 199.47, 199.42, and 199.37, respectively.
- The data indicates a fluctuating trend in high values from 2018 to 2022, followed by a forecasted period of stability in the subsequent years.

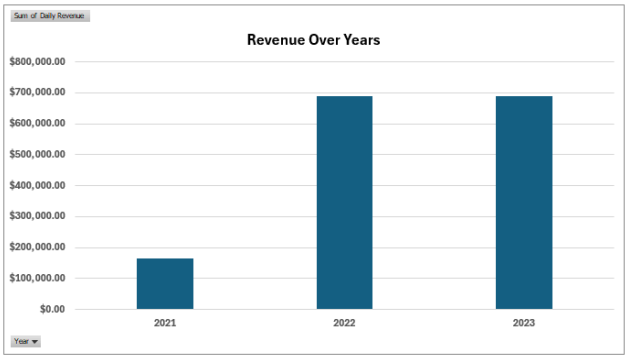
DASHBOARDS:

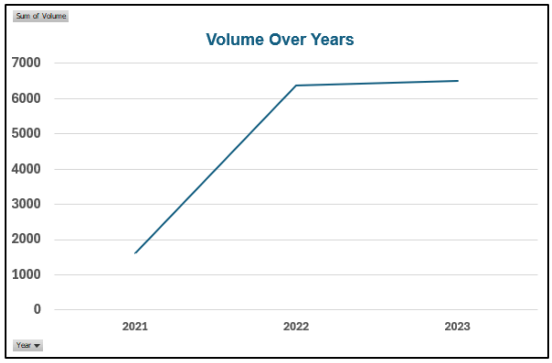

DYNAMIC DASHBOARD
Total Revenue
$3,990,690.00
Avg Monthly Revenue
$133,023.00
Avg High value
$431,689.00
Avg closing Value
$226,825.00
TIMELINE
Date
2018 - 2024
Revenue Over Years
Volume Over Years
Chart Area
Sum of Open
Sum of Close
Sum of High
Sum of Volume
January
February
March
April
May
June
July
August
September
October
November
December
FALSE
2018
2019
2020
2021
2022
2023

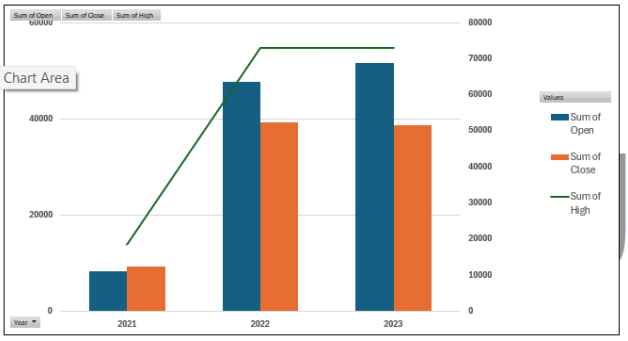


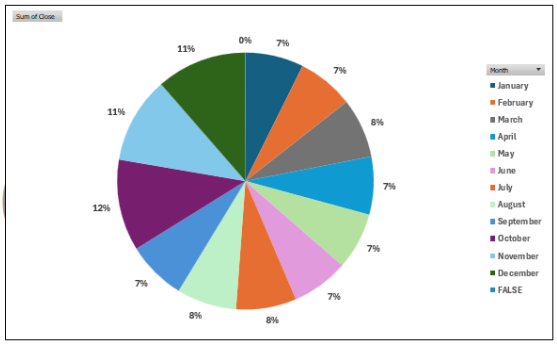
With Timelines:

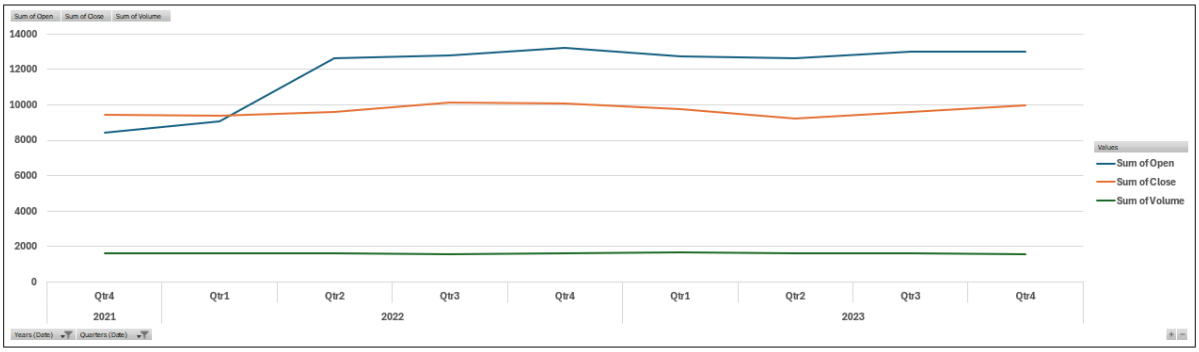


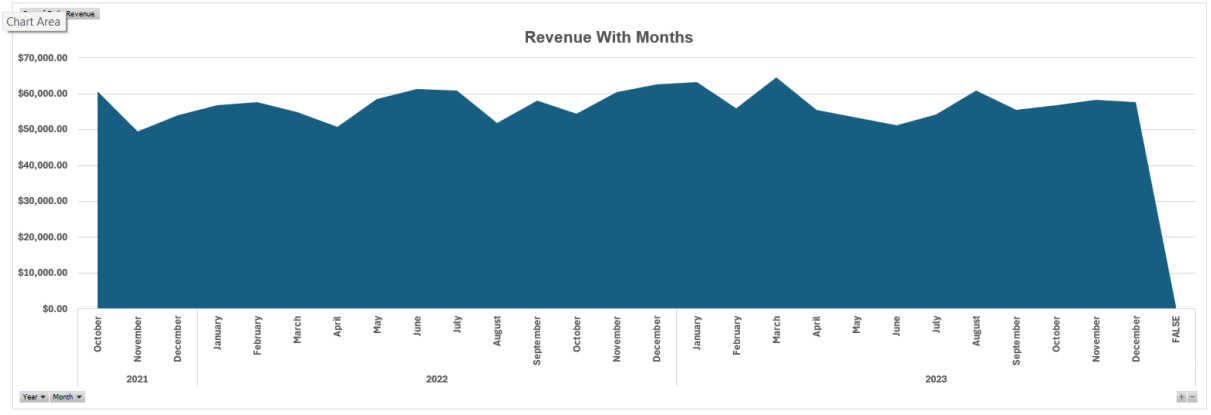





Sum of Open
Sum of Close
Sum of High
Chart Area
80000
70000
60000
50000
40000
30000
20000
10000
0
40000
20000
0
2021
2022
2023
Values
Sum of Open
Sum of Close
Sum of High
Year


Sum of Close
0%
7%
7%
8%
7%
7%
7%
8%
8%
7%
12%
11%
11%
Month
January
February
March
April
May
June
July
August
September
October
November
December
FALSE


Sum of Open
Sum of Close
Sum of Volume
14000
12000
10000
8000
6000
4000
2000
0
Qtr4
Qtr1
Qtr2
Qtr3
Qtr4
Qtr1
Qtr2
Qtr3
Qtr4
2021
2022
2023
Values
Sum of Open
Sum of Close
Sum of Volume
Years (Date)
Quarters (Date)


Revenue
Chart Area
Revenue With Months
$70,000.00
$60,000.00
$50,000.00
$40,000.00
$30,000.00
$20,000.00
$10,000.00
$0.00
October
November
December
January
February
March
April
May
June
July
August
September
October
November
December
January
February
March
April
May
June
July
August
September
October
November
December
FALSE
2021
2022
2023
Year
Month