Submission date: 18th December 2022

TIME SERIES DATA – cinema tickets

1. EDA-->

* **Descriptive:** (using Tableau or Python)

Example:

* Which movie is screened most-->mode,
* when ticket out is max and any pattern etc,
* Charts for Total sales and Tickets sold, tickets out, capacity, date, month, quarter, etc
* **Analysis of Outliers in total sales**, if any, then analyse its month (probably ticket out/ticket cancellation, tickets sold, etc during that month has its effect) and the pattern in it (using Tableau/Python),
* **Outlier capping:** (in python)🡪 code that we discussed for outlier capping has been attached at the end of the file- “Air\_passenger-Bfill-Ffill”

1. HYPOTHESIS FORMULATION AND TESTING: (Using SPSS or PYTHON, though Python will be preferred)

* Number of hypotheses: 2 or3
* t-test,
* z-test,
* ANOVA,
* chi-square etc **(Any-one)**

1. DECOMPOSITION--> Trend and Seasonality Component (USING PYTHON ONLY)
2. MOVING AVERAGE & EXPONENTIAL SMOOTHING (USING PYTHON ONLY)
3. PREDICTING TOTAL SALES (USING PYTHON ONLY)

Files uploaded by mam for reference (for steps (3-5) )🡪 “Air\_passenger-Bfill-Ffill”