### visualizing housing market trends: an analysis of sale prices and features using tableau

Name: SYED MABU SUBANI

Roll number:22E91A4406

mail id: <a href="mailto:subhanisd991@gmail.com">subhanisd991@gmail.com</a>

College name: Chirala Engineering college chirala

### <u>**Learning Objectives:**</u>

The primary learning objective in a visual housing market context is to understand how visual features extracted from images (both of the house itself and its surroundings) can be used to predict or influence house prices. This involves learning to analyze images, extract relevant visual features, and integrate them into a machine learning model for price prediction or other related tasks.

### **Information visualization**

Tableau can be effectively used to visualize housing market trends by analyzing sale prices and property features, providing valuable insights for buyers, sellers, and investors

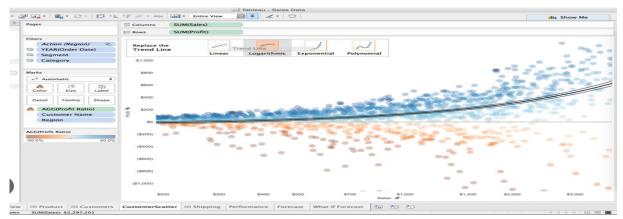
### **TOOLS AND TECHNIQUES**

- 1. Tableau
- 2. Power Bl
- 3.Google Data Studio
- 4. Python libraries
- 5.Other Notable Tools

A widely used platform known for its user-friendly interface and powerful visualization capabilities. Tableau allows users to connect to various data sources, create interactive dashboards, and share insights.

powerful data visualization software used to create interactive dashboards and visualizations from various

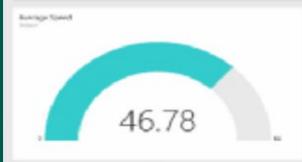
data sources.



Power BI is a business intelligence platform developed by Microsoft, primarily used for data visualization and business analytics.

#### SR 520 Bridge Traffic O Share Dashboard

Ask a question about the data on this distributed



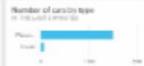


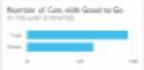


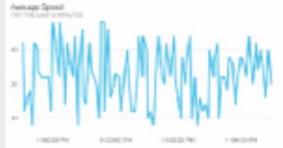
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40.36K

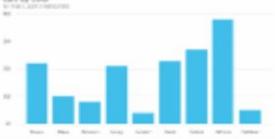
Number of Cars







Cars by Color



Current Speed

Card Earthoused

40.00

34.86

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Exil Nextboard

## Visualization Techniques in Tableau

Tableau offers powerful visualization techniques that enhance data interpretation and presentation. This slide will showcase methods used to visualize housing market trends, including graphs, heat maps, and dashboards. These techniques aid audiences in understanding complex data, making informed decisions based on visual insights.



# Comparative Analysis of Properties

This slide presents a comparative analysis of properties within the same region, emphasizing variations in pricing based on features and market demand. By examining similar listings, stakeholders can identify pricing strategies and understand consumer preference trends. This data-driven approach aids in formulating effective sales strategies.



## Key Features Influencing Prices



Certain property features such as location, square footage, and amenities greatly impact home sale prices. Analyzing which features are most valued by buyers can help in pricing properties competitively. This analysis will focus on how specific characteristics influence buyer decisions, contributing to higher sale prices in the market.

### Impact of Economic Factors



Economic factors play a significant role in shaping the housing market. Fluctuations in interest rates, employment rates, and inflation directly influence buyer behavior and pricing trends. This slide will explore how these economic parameters affect market dynamics, providing insights into future trends and potential market corrections.

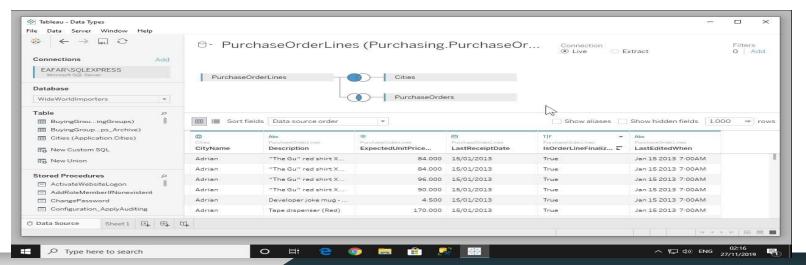
# Step 1: Connect to Data source

To connect to a data source in Tableau, you begin by selecting a connection type (e.g., file, server, database) from the "Connect" pane in Tableau Desktop. Depending on the data source, you may need to provide credentials or other connection information. After connecting, you can select the specific data you want to use for analysis.



## Step 2:Data Cleaning and Management

Data cleaning and management in Tableau involves preparing your data for analysis by handling inconsistencies, errors, and irreleva information. This process ensures data accuracy and usability, leading to more reliable visualizations and insight



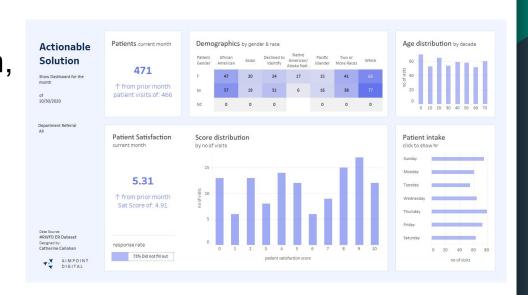
## Step 3: Create your first viz



To create your first visualization (viz) in a Tableau dashboard, you'll first need to connect to your data, then create individual visualizations (sheets), and finally combine them into a dashboard. You can use Tableau Public for free and publish your work there.

### analyze data and gain more insights

leverage features
like data exploration,
filtering,
aggregation, and
interaction to
uncover trends and
patterns



### conclusion

provides a powerful means to understand property price dynamics and influencing factors creating interactive dashboards that allow users to explore relationships between price, location, size, and other characteristics, revealing patterns and insights.

