**Blog 2:  Data Storytelling on Sydney House Price**

Dataset Source: [Sydney House Prices | Kaggle](https://www.kaggle.com/datasets/mihirhalai/sydney-house-prices)

**Introduction**

Sydney is one of the largest and multicultural cities in Australia. Sydney has been famous and popular as one of the amazing places for tourists and as well as to live for residents and foreign people. Hence, Sydney is a place, where married couples buy house and start their new life. Also, many residents from other places are looking for houses in Sydney to settle into Sydney. However, people, who move to Sydney for the first time, sometimes struggle with finding the right time and the suitable suburbs to live in.

In terms of the following contexts, various visualizations can provide insights to the majority of Sydney suburbs, types of houses and the overall house prices in each year and month.

**Visual Narratives**

Figure 1 shows the top 10 of suburbs, which have the greatest number of houses for many years in Sydney. Accordingly, a plenty of houses are mostly located in Castle hill, Strathfield, Ermington, Carlingford, Marrickville, Auburn, Cherrybrook, Pennen hills, St. Ives and Macquarie Fields. Those suburbs may represent the popularity and a majority of crowd in Sydney.

Chart, bar chart

Description automatically generated

Figure 1. Top 10 Suburbs in Sydney

Chart, pie chart

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Figure 2. Distribution of House Types

Figure 2 shows the distribution of house types in Sydney. Most of types seem to be ‘House’ (85%), followed by townhouse (7%), duplex/semi-detached (3%) and villa (2%). However, considering that this analysis also includes the past years from 2000, there could be some changes in Sydney house types.

Furthermore, Figure 3 shows distributions of numeric columns, including postcode, selling price, number of bed and bath, car space, year and month. Postcodes in Sydney are a range between 2000 and 3000. Also, the graph of years shows that most of house sales mainly happened between 2010 and 2020. When looking into the graph of months, the period of house sale usually happens in March and November.

Graphical user interface, diagram, application

Description automatically generated

Figure 3. The Distribution of Numeric Columns (e.g., Postcode, Selling Price, Bed, Car, Year, Month)

Chart, line chart

Description automatically generated

Figure 4. Distribution of Selling Price of House Types by Years and Months

Those two graphs show the distribution of selling price of each house type by years and months. Accordingly, house was only expensive in 2000 and kept similar selling price rate throughout years. Townhouse was especially very expensive in 2011 and kept similar selling price rate in other years. House type is generally the most expensive house type, but the price of terrace is continuously increasing over the years.

When looking into months of selling price, many of houses were especially expensive in May and kept the similar rate overall. Townhouse is particularly expensive in October.

Those visualizations clearly show that majority of house sales happen in March and November. Also, it would be good to avoid buying house in May and October. While house type is still primary house type in Sydney but there is a continuous increase in trends of townhouse and villa.