

**Data Analytics - I**  
**Assignment 1**  
**Topic: Data Visualization**

**Release date:** 11th August 2022

**Deadline:** 18th August 2022

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This assignment aims to get you started with visualization and understand how the data can be processed using Python.

Download the dataset from the link [here](#) and explore the dataset. The dataset is the real dataset containing the data from Makaan.com. Think of yourself as a data scientist and present your findings on the datasets to investors looking for investments focused on housing real estate. The strategy of investing is different for each investor. Consider the following requirements provided by the investors and plot appropriate visualizations.

- Every investor has different budget ranges, so divide the overall opportunities into three ranges. **[10 marks]**
- Some investors are interested only in tech-emerging cities like Hyderabad, Bangalore, and Chennai with ready-to-move properties for leasing purposes. **[25 marks]**
- Some prefer larger area properties with relatively lesser budgets. **[15 marks]**
- Some investors prefer making all the investments in one locality, while some are interested in diversifying the portfolio by assets spread across one city. **[25 marks]**
- Some investors are interested in knowing the hotspot for their offices in Mumbai and Ahmedabad. **[25 marks]**

You need to create a python notebook that imports the data and try generating different interesting visualizations using the methods taught in class. Also, provide the complete reasoning in the markdown for choosing it to be interesting.

For visualization, you are also free to explore methods apart from class. Also, Add a brief explanation of failed attempts or visualizations which you think were not interesting.

### **Submission Instructions**

- You have to upload a jupyter notebook that contains the visualizations and the required reasoning with file name **<team-name>.ipynb**
- Submit a zip file named **<team-name>.zip** with the jupyter notebook