

**Company Information:**

Flyzy aims to make travel experience better and faster for the passengers in airports. The mobile application of Flyzy pipelines different services in airports like checking-in, ordering food, booking a lounge or cab. The company started in India in 2020 amidst Covid-19 to help airport passengers. The company is effectively using technology and got recognized by StartUp India (DPIIT) for its futuristic services. The application is available on android and iOS platforms. Flyzy has partnerships with major Indian international airports in Kolkata, Delhi, Mumbai, Bangalore, Chennai and Goa and many other smaller airports in India.

Website Link: <https://flyzygo.com/>

Theme: Data Analytics

Project Task 4: Data Visualization

Background Information

Data visualization refers to the techniques involved in graphically representing data, using visual elements like charts and graphs to spot trends, patterns, and outliers, for quick insights, and to help in real-time decision-making. It's increasingly important in today's world to understand the overwhelming volume of data being generated by businesses every single day.

Good data visualization removes noise from data, highlights useful information, and tells a story. Edward R. Tufte, a pioneer in data visualization says, "Graphical excellence is that which gives to the viewer the greatest number of ideas in the shortest time, with the least ink in the smallest space."

In a business environment, the speed at which decisions are made is key. It shouldn't take too long to find answers for known questions and indicators. Yet, while dealing with unknown scenarios, there should be sufficient scope to explore the available data in less time-consuming ways.

Task Explanation

In this task, you are expected to implement different data visualization techniques with python. Use libraries like seaborn, matplotlib, plotly, pyplot etc. in Python to generate visualizations like Scatter Plot, Histogram, Bar Plot, Time Series Plot, Box Plot, Heat Map, Correlogram, Raincloud Plot and others. You are encouraged to think about which plot to use in which instance. Give a brief summary of which plots do you think will be useful in this project with reasons.



Resources

Data Visualization

<https://www.zoho.com/analytics/what-is-data-visualization.html>

Visualization techniques

<https://www.analyticsvidhya.com/blog/2022/01/walmarts-sales-analysis-through-data-visualization/>

Tools

<https://towardsdatascience.com/8-best-data-visualization-tools-that-every-data-scientist-should-know-2287c9c45cc4>

Task Submission

Summarise your work in a document that is easy to understand. Upload the video on the google drive and paste the link in the submission document. Submit your document which is either in .docx or .pdf format and the file size is not larger than 2MB. To submit this task you can go to the Project Task section of your dashboard and find Company Task 4 listed there. Click on choose file and upload.

Deadline

The assignment should be submitted by **Sunday, 12th June 2022.**