3. The _____ of Matplotlib explains how data visualization has evolved over time.

- History and Architecture

4. Understanding Data Analysis involves exploring _____ data.

- 1-D data

5. Vectors in linear algebra undergo various operations such as addition, subtraction, and _____.

- Multiplication

6. Matrices are arrays of numbers with _____ and columns.

- Rows

7. Central tendencies like mean, median, and mode describe the _____ of a dataset.

- Center

8. Dispersion measures how spread out or clustered data points are, also known as _____.

- Variability

9. The _____ is a measure of how likely an event is to occur.

- Probability concept

10. The _____ is a bell-shaped curve that represents the distribution of data.

- Normal Distribution

11. Basic plots in Matplotlib include Line Plots, Bar Plots, and _____.

- Histograms

12. Pyplot in Matplotlib is used for creating _____ like Scatter plots and 3D plots.

- Plots

13. _____ visualize the content of a 2D array using colors.

- Contour lines

14. Plotting _____ allows us to observe trends more clearly.

- Log charts for research

15. _____ is a Python library used for creating interactive maps.

- Folium

16. Choropleth Maps are used to represent data using different _____.

- Colors

17. Generating a PNG picture is an example of _____ in data visualization.

- Export feature

18. Inserting _____ allows for creating more complex visualizations.

- Subfigure

19. _____ is a proposed explanation for a phenomenon.

- Hypothesis

20. Gradient Descent is an optimization algorithm used to minimize _____.

- Loss function

21. _____ allows for visualizing the relationship between variables.

- Relational plot

22. Distribution plots like Joinplot and Distplot help in understanding the _____ of data.

- Distribution

3. What term is used to describe the understanding of data visualization, its history, and the architecture of Matplotlib?

- Answer: Understanding Data Visualization

4. What term describes the process of examining one-dimensional data?

- Answer: Exploring 1-D data

5. What term describes the process of examining two-dimensional data?

- Answer: Exploring 2-D data

6. What term is used to describe arrays of numbers with rows and columns?

- Answer: Matrices

7. What term describes a measure of how data points are spread out or clustered?

- Answer: Dispersion

8. What term is used to describe the likelihood of an event occurring?

- Answer: Probability concept

9. What term is used for creating multiple plots arranged together in a single figure?

- Answer: Multiple Subplot

10. What term describes the process of visualizing the content of a 2D array using colors?

- Answer: Visualizing the content of a 2D array

11. What term is used for a Python library used for creating interactive maps?

- Answer: Folium

12. What term describes the process of generating a PNG picture from a visualization?

    - Answer: Generating a PNG picture

13. What term describes a proposed explanation for a phenomenon?

    - Answer: Hypothesis

14. What term is used to describe a plot that visualizes the relationship between variables?

    - Answer: Relational plot