## Your grade: 100%

✓ Correct

Your latest: 100% • Your highest: 100% • To pass you need at least 73%. We keep your highest score.

Next item  $\Rightarrow$ 

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1.	Which of the following statements accurately describes the importance of Data Visualization?	1/1 point
	O Data Visualization is only useful for simple datasets and doesn't provide any added value for complex data.	
	O Data Visualization primarily serves aesthetic purposes and doesn't significantly impact data analysis.	
	Data Visualization enables us to communicate insights and findings to stakeholders in a more compelling and understandable way	
	The primary function of Data Visualization is to complicate data analysis processes rather than simplify them.	
	Correct Correct! Data Visualization enables us to communicate insights and findings to stakeholders in a more compelling and understandable way.	
2.	Which layer within the Matplotlib architecture generates graphics and plots quickly and easily?	1/1point
	○ Backend Layer	
	○ FigureCanvas	
	Scripting Layer	
	○ Figure Layer	
	Correct Correct! The scripting layer is the appropriate layer for everyday purposes. It is considered a lighter scripting interface to simplify common tasks and for a quick and easy generation of graphics and plots.	
3.	Complete the following sentence: Spotify's data visualization tool, Spotify Pie, allows users to create customized  Scatter plots Bar graphs Pie charts Line graphs	1/1 point
	<ul> <li>Correct         Correct! Spotify uses Spotify Pie which enables users to create customized pie charts based on their listening habits on Spotify.     </li> </ul>	
4.	Using Matplotlib magic functions which code starts the command?	1/1 point
	○ Smatplotlib outline	
	6 %matplotlib jupyter-notebook	
	%matplotlib inline	
	○ %matplotlib	
	© Correct  Correct! The command "%matplotlib inline", is used to generate plots within the browser and it is one of the Matplotlib backends. A sign of a magic function is that it starts with "%matplotlib."	
5.	Area plots are particularly effective in depicting data of what nature?	1/1 point
	O Continuous dataset	
	○ Metadata	
	Numerical data	
	Population demographics	

6. What type of chart is similar to a histogram and is commonly used to compare the values of a variable at a	4 / 4
6. What type of chart is similar to a histogram and is commonly used to compare the values of a variable at a given point in time?	1/1 point
Radial column chart	
<ul><li>Bar chart</li></ul>	
○ Pie chart	
○ Table chart	
⟨→⟩ Correct	
Correct! A bar chart is a type of plot in which the length of each bar is proportional to the value of the	
item it represents. It compares the values of a variable at a given point in time.	
. Which library must you import to work with tabular data in Matplotlib?	1/1poin
Subplot	
Pandas	
Matplotlib. pyplot	
NumPy	
Correct! Matplotlib is a general-purpose comprehensive plotting library that provides a flexible	
interface for creating a wide range of plots. To work with tabular data in Matplotlib, you need to import Pandas.	
mport direction	
8. Where can Waffle Charts be applied?	1/1 poin
O Social media analysis	
O Customer feedback analysis	
Budget allocation	
Market research	
<b>⊘</b> Correct	
Correct! You can use waffle charts to demonstrate the allocation of budgetary resources across categories or departments within an organization.	
categories of departments within an organization.	
Which specialized plot type in Seaborn is useful for data and modeling relationships? [Select two]	1/1 poin
☐ Pie plot	
Categorical plot	
Correct! Seaborn provides specialized plot types such as regression, distribution, and categorical	
plots that are particularly useful for analyzing data and modeling relationships.	
☐ Bar plot	
Regression plot	
<b>⊘</b> Correct	
Correct! Seaborn provides specialized plot types such as regression, distribution, and categorical plots that are particularly useful for analyzing data and modeling relationships.	
piots that are particularly useful for analyzing data and modeling relationships.	
10. Which Folium Map style is great for visualizing and exploring river meanders and coastal zones?	1/1 poin
Stamen terrain	
○ Street-level map	
Stamen toner	
Open street map	
<ul> <li>Correct</li> <li>Correct! Folium allows you to create different map styles using the tiles parameter. One of the map</li> </ul>	
styles is Stamen Toner. It is great for visualizing and exploring river meanders and coastal zones.	

Correct! Area plots are particularly effective in depicting data with a cumulative nature, such as

visualizing population demographics.

	○ Zoom function	
	OLongitude	
	○ Latitude	
	Markers     Markers	
	Correct Correct! Markers represent specific locations or points of interest, providing additional information when clicked. Markers are like signposts that guide us through the map, highlighting essential elements.	
12.	Which tool is the Python framework for building web analytic applications?	1/1 point
	Dash	
	O Panel	
	Streamlit	
	O Voilà	
	<ul> <li>Correct         Correct! The Python framework Dash creates web analytics applications. It is designed for creating data visualization apps with highly customized user interfaces. It builds on top of Flask, Plotly.js, and React.js.     </li> </ul>	
13.	What is the key difference between Plotly Graph Objects and Plotly Express?	1/1 point
	Plotly Graph Objects is a high-level wrapper, while Plotly Express is a low-level interface.	
	Plotly Graph Objects provides a simpler syntax, while Plotly Express offers more customization options.	
	Plotly Graph Objects requires fewer commands, while Plotly Express automatically generates layout and figure objects.	
	Plotly Graph Objects focuses on 3-dimensional data, while Plotly Express focuses on statistical analysis.	
	○ Correct     ○ Correct! Plotly Graph Objects is a low-level interface and requires fewer commands to create figures, while Plotly Express is a high-level wrapper that automatically generates layout and figure objects.	
14.	What does the @app.callback decorator tell Dash when used in a Callback function?	1/1 point
	<ul> <li>It tells that the function is automatically called by Dash whenever an input component's property changes.</li> </ul>	
	It tells you to connect the input and output components to the desired properties.	
	It tells you to provide the title to the dash app.	
	It tells output component children in the application layout.	
	<ul> <li>Correct         Correct! A Callback function is automatically called by Dash whenever an input component's property changes.     </li> </ul>	
15.	What type of interface does Dash have?	1/1 point
	O Data-based	/ - F
	Open source	
	Closed source	
	Code-based	
	<ul> <li>Correct</li> <li>Correct! Dash is an Open-Source User Interface Python library for creating reactive, web-based applications. It is enterprise-ready and a first-class member of Plotty's open-source tools.</li> </ul>	