

1.How would you explain Streamlit to someone who is new to the framework?  
Streamlit is a free and open-source framework to rapidly build and share beautiful machine learning and data science web apps. It is a Python-based library specifically designed for machine learning engineers.

2.Can you describe the main features and advantages of using Streamlit for building data applications?

Less code is needed to create a beautiful application

No callbacks are needed since widgets are treated as variable

Data caching simplifies and speeds up computation pipelines.

3.what is the purpose of the st.write() function in Streamlit, and how is it commonly used?

This api is used to create a title element in the data app. The title comes in bold and in the top of the app page. The title takes a string argument which it represents in the title position. This is a useful method to give a proper heading to your app.

4.Explain how widgets work in Streamlit and provide examples of different types of widgets.

Streamlit assigns an ID to each widget from the arguments passed to the widget function. A widget ID is based on parameters such as label, min or max value, default value, placeholder text, help text, and key. The page where the widget appears also factors into a widget's ID.

5.How can you handle user inputs and interactions in a Streamlit application?

6.Discuss the role of caching in Streamlit and when it might be beneficial to use it.

7.What is the purpose of the st.sidebar in Streamlit, and how is it typically utilized?

8.Explain the concept of reactive programming in the context of Streamlit.

9.How does Streamlit handle the sharing of data between different components in an application?

10.Can you compare Streamlit to other popular web frameworks used for data applications, highlighting its strengths

yes we can compare it with dash and streamlit is very efficinet than dash.