AFRICA DATA SCHOOL

DASH PLOLTY

Dash is the low-code platform for ML & data science app

The *Dash* platform empowers data science teams to focus on the data and models, while producing and sharing enterprise-ready analytic apps

Dash is a Open Source Python library for creating reactive, Web-based applications

About Dash

- Dash Apps require very little boilerplate to get started - a simple "hello world" Dash app that dynamically displays a graph based off of a dropdown's value weighs in under 50 lines of code.
- Dash Apps are generated entirely from Python, even the HTML and JS
- Dash Apps bind interactive components (dropdowns, graphs, sliders, text inputs) with your own Python code through reactive Dash "callbacks".
- Dash Apps are inherently multi-user apps as the "state" of the app is entirely in the client: multiple users can view apps and have independent sessions.
- Since Dash has a traditional stateless backend, it's easy to scale apps to serve hundreds or thousands of users by scaling up the number of worker processes
- Dash uses React.js to render components and includes a plugin system for creating your own Dash components with React.
- Dash's Graph component is interactive, allowing Dash app authors to write applications that respond to hovering, clicking, or selecting points on the graph.

Architecture

- Dash applications are web servers running Flask and communicating JSON packets over HTTP requests. Dash's frontend renders components using React.js, the Javascript user-interface library written and maintained by Facebook.

Dash Installation

pip install dash

Dash layout

A Dash application is usually composed of two parts.¶

1. The first part is the layout and describes how the app will look like
2. Second part describes the interactivity of the application

Practical