Make your Data Application using The Easiest Framework, Streamlit

Muhammad Sifa'ul Rizky 15th November 2020

About Me:

Data Analyst at Astra Graphia IT

Focusing about customers experience and how to make it better.

Love football, analytics and insights!



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Curious with Data



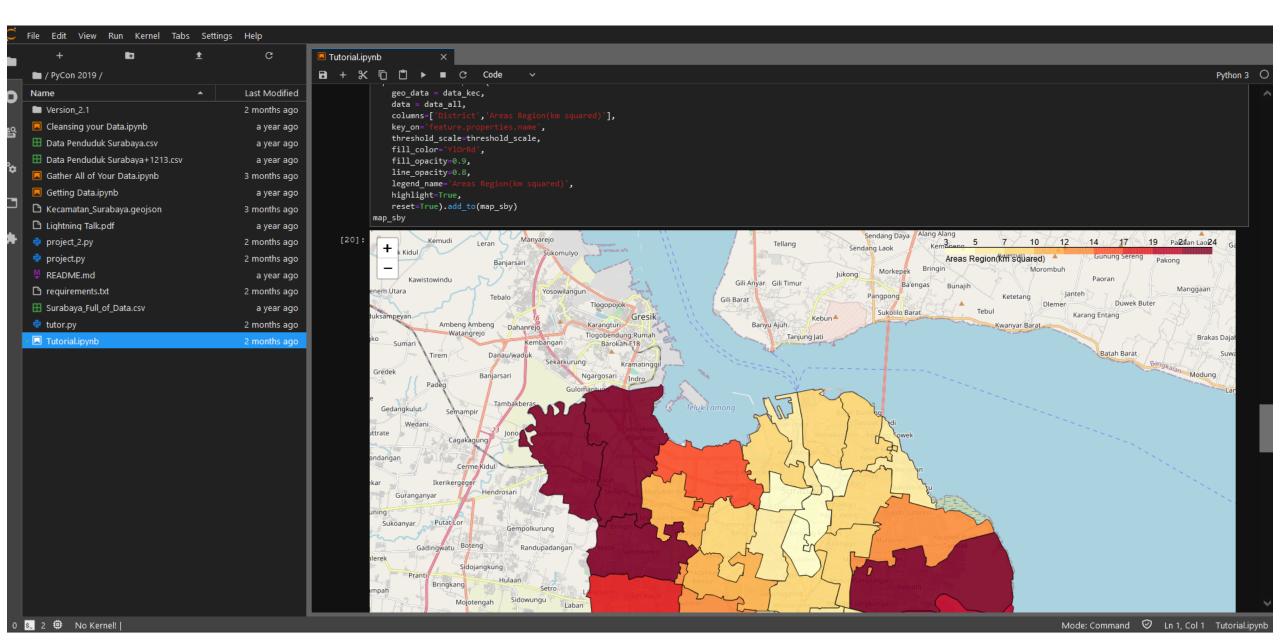
Python Conference 2019 Indonesia

```
for lat, lng, borough, neighborhood in zip(data_all['District']):

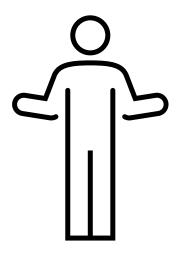
data_all['Longitude'], data_all['Borough'], data_all['District']):
     label = '{}, {}'.format(neighborhood, borough)
     label = folium.Popup(label, parse_html=True)
      folium.CircleMarker(
          [lat, lng],
          radius=5,
          popup=label,
          color='green',
          fill=True,
          fill_color='#3186cc',
          fill_opacity=0.7,
          parse_html=Fal
```

Lightning Talks

Youtube Videos



My Story



My problem as a data scientist/ analyst:

- Sometimes more focusing on analytic or modelling
- We are talking to others like they know our circles/work
- Users are not understand about what we have right now.

So the main point is, how to show our work? With a convenient way?





Introduce Streamlit

Streamlit. The fastest way to build and share data apps

Turn data scripts into sharable web apps in minutes. All in Python. All for free. No front-end experience required.

Installation and Tutorial





```
PS D:\> streamlit hello

Welcome to Streamlit. Check out our demo in your browser.

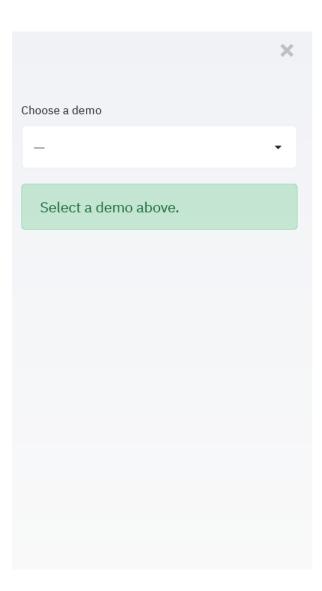
Local URL: http://localhost:8501

Network URL: http://192.168.1.15:8501

Ready to create your own Python apps super quickly?

Just head over to https://docs.streamlit.io

May you create awesome apps!
```



Welcome to Streamlit! 👏



Streamlit is an open-source app framework built specifically for Machine Learning and Data Science projects.

Select a demo from the dropdown on the left to see some examples of what Streamlit can do!

Want to learn more?

- Check out streamlit.io
- Jump into our documentation
- Ask a question in our community forums

See more complex demos

- Use a neural net to analyze the Udacity Self-driving Car Image Dataset
- Explore a New York City rideshare dataset

Why

Embrace Python scripting

Weave in interaction

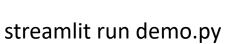
Deploy instantly

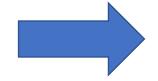
Embrace Python scripting





Just a simple code demo.py

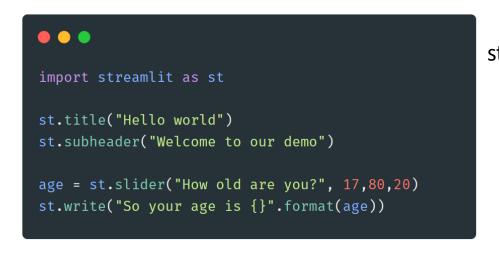




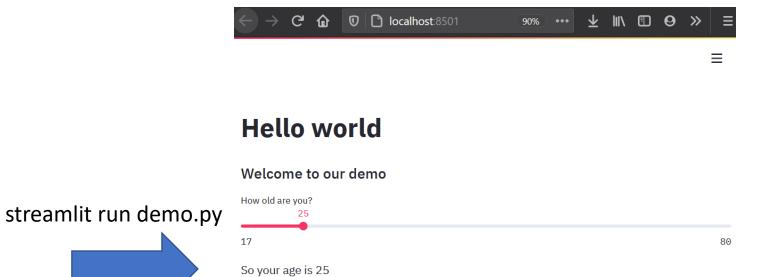
Hello world

Welcome to our demo

Weave in interaction



Just a simple code demo.py



Made with Streamlit

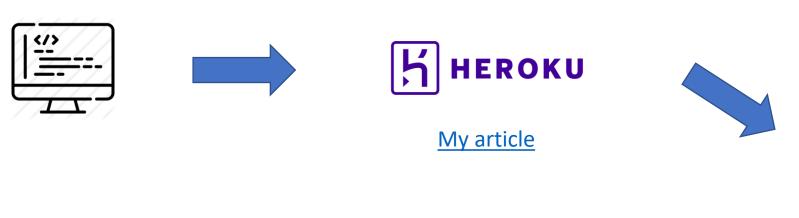
Deploy instantly

```
$ git push origin master

Compressing objects: 97% (11/11), done.
Writing objects: 0% (0/12), 0.10 KiB | 12.64 M
```

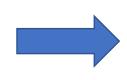
Source: Streamlit official website

Flow for deployment



Ready to serve!





Streamlit Share



Good for dashboard

```
import streamlit as st
import pandas as pd
import plotly express as px
data = pd.read_csv("Surabaya_Full_of_Data.csv")
st.title("Hello world")
st.subheader("Welcome to our simple dashboard of
Surabaya")
st.write(data.head())
fig = px.bar(data, x='District', y='Total
Population', title='Total Population based on District')
st.plotly_chart(fig)
```

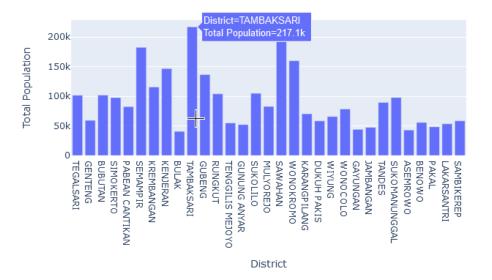
Hello world

Welcome to our simple dashboard of Surabaya

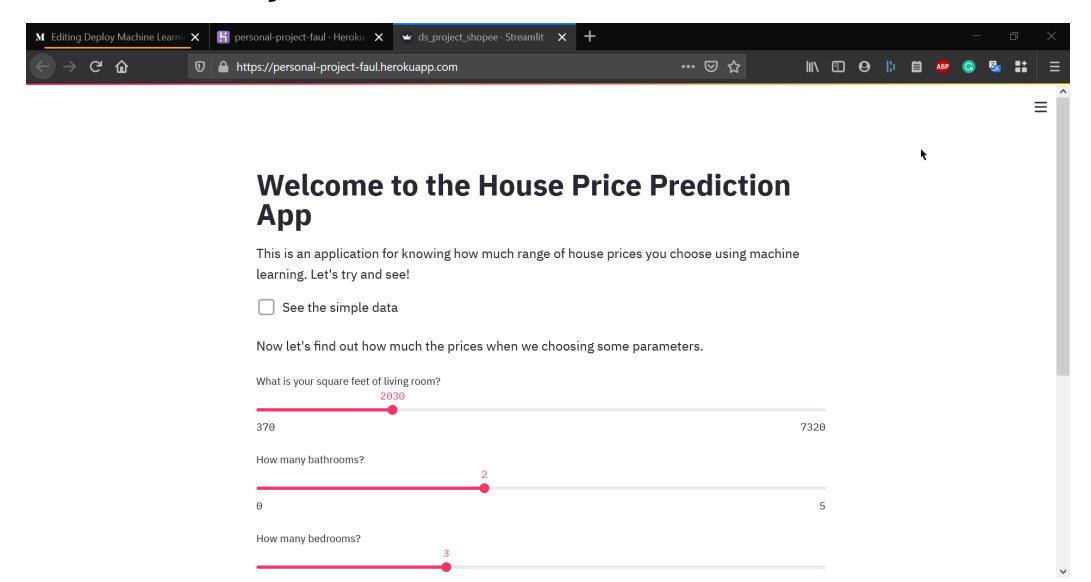
	District	Areas Region(km square…	Borough	Latitude	Longitude
0	TEGALSARI	4.2900	Surabaya Pusat	-7.2798	112.73
1	GENTENG	4.0500	Surabaya Pusat	-7.2591	112.74
2	BUBUTAN	3.8600	Surabaya Pusat	-7.2500	112.73
3	SIMOKERTO	2.5900	Surabaya Pusat	-7.2386	112.75 🗸
4	<				>



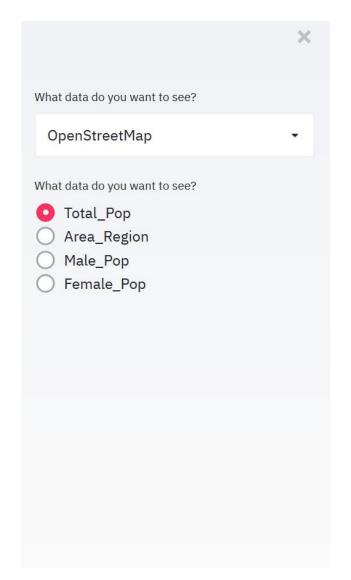
Total Population based on District



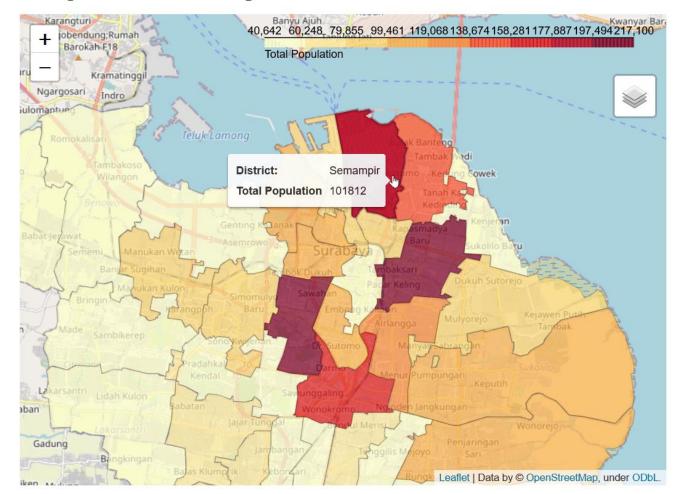
What can you build? House Price Prediction



What can you build? Simple Dashboard about Surabaya



Map of Surabaya





Demo

Thank you!



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