DAILY ASSESSMENT FORMAT

Date:	**22/05/2020**	**Name:**	**Jagadeesha Hegde**
Course:	**TCS-ION Career Edge**	**USN:**	**4AL17EC036**
Topic:	**Understand Artificial Intelligence(AI) - Part 1** **Understand Artificial Intelligence (AI) - Part 2** **Gain Foundational Skills in IT**	**Semester & Section:**	**6th A-sec**
Github Repository:	**Jagadeesha-036**		

FORENOON SESSION DETAILS

Image of session

Understand artificial intelligence:

What is AI?

Artificial intelligence (AI) is the ability of a computer program or a machine to think and learn.

Applications:

- Computer vision
- Image recognition
- Robotics
- Language processing
- Speech processing

Practical impact of AI:

- All components are embedded in numerous devices eg :copy machines
- AI systems are in everyday use
    - Detecting credit card fraud
    - Configuring products
    - Aiding complex planning tasks
    - Advising physicians
- Intelligent tutoring systems provide students with personalized attention

Approaches to AI:

- Strong AI aims to build machines that can truly reason and solve problems which is self aware and whose overall intellectual ability is indistinguishable from that of a human being

  Human like

  Non-human like
- Weak AI: deals with the creation of some form of computer based artificial intelligence that cannot truly reason and solve problems .but can act as if it were intelligent.
- Weak AI holds that suitably programmed machines can simulate human cognition.

What can AI systems do:

- Image recognition, when the number of objects in the image is limited
- face recognition
- Speech recognition
- Robotics: autonomous(mostly) automobile
- Natural language understanding in narrowly bounded domains

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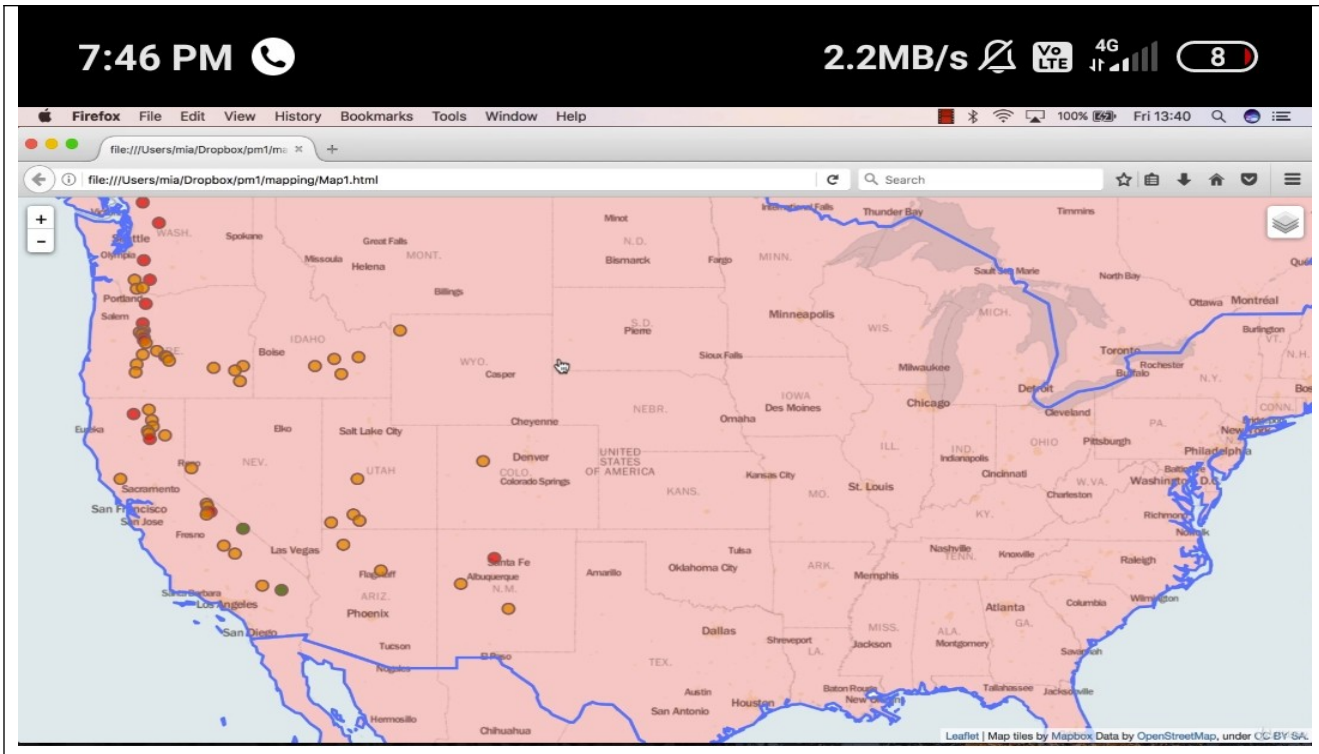
Date:	**22/05/2020**	**Name:**	**Jagadeesha Hegde**
Course:	**The python mega course**	**USN**	**4AL17EC036**
Topic:	**Application 2: Create Webmaps with Python and Folium**	**Semester & Section:**	**6th A-sec**
Github Repository:	**Jagadeesha-036**		

AFTERNOON SESSION DETAILS
Image of session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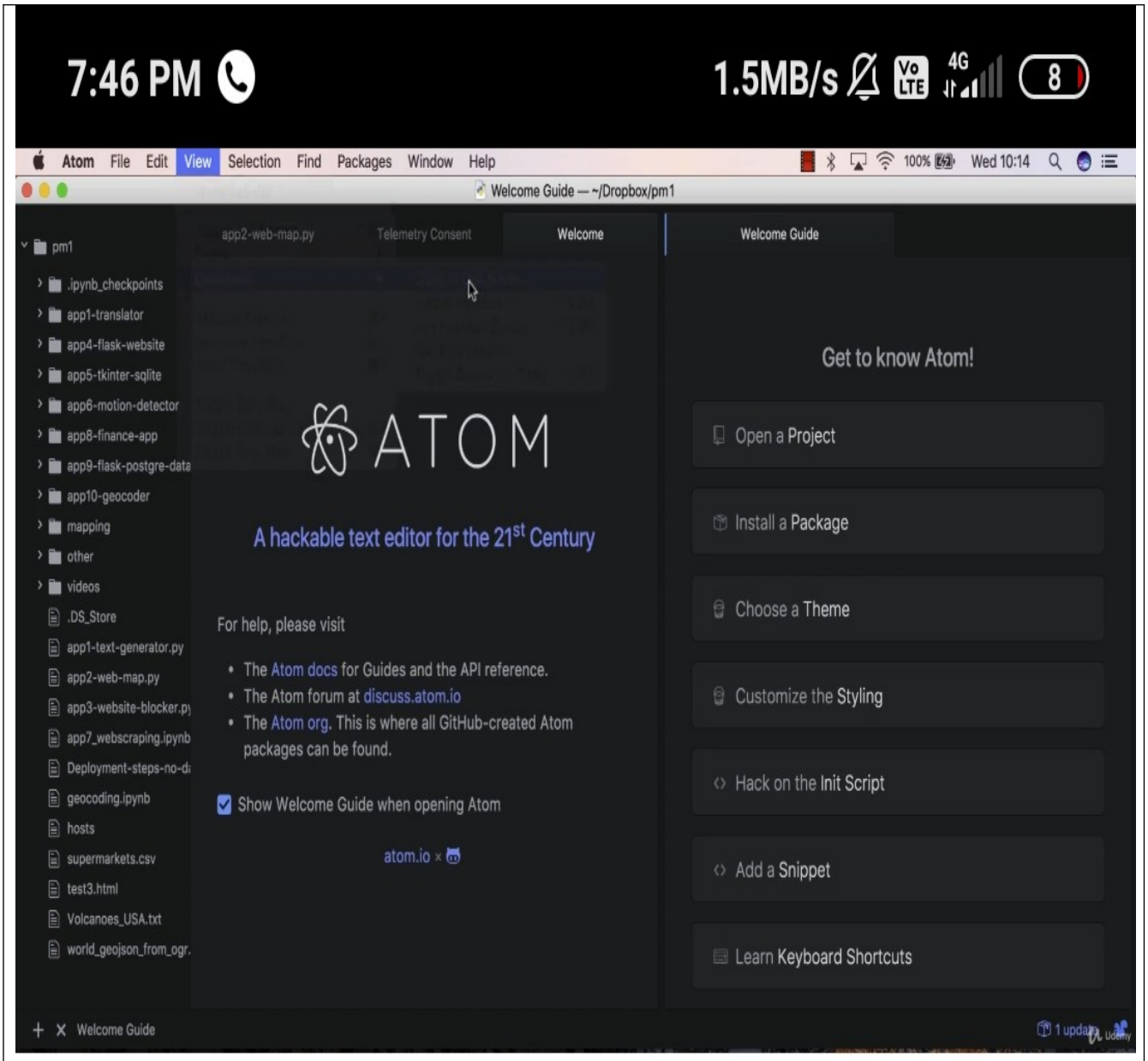

Lectures More

Report:
import folium
import pandas

```
data = pandas.read_csv("Volcanoes.txt")
lat = list(data["LAT"])
lon = list(data["LON"])
elev = list(data["ELEV"])

def color_producer(elevation):
    if elevation < 1000:
        return 'green'
    elif 1000 <= elevation < 3000:
        return 'orange'
    else:
        return 'red'
map = folium.Map(location=[38.58, -99.09], zoom_start=6, tiles="Mapbox Bright")

fgv = folium.FeatureGroup(name="Volcanoes")

for lt, ln, el in zip(lat, lon, elev):
    fgv.add_child(folium.CircleMarker(location=[lt, ln], radius = 6, popup=str(el)+" m",
    fill_color=color_producer(el), fill=True,  color = 'grey', fill_opacity=0.7))

fgp = folium.FeatureGroup(name="Population")

fgp.add_child(folium.GeoJson(data=open('world.json', 'r', encoding='utf-8-sig').read(),
style_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000
else 'orange' if 10000000 <= x['properties']['POP2005'] < 20000000 else 'red'}))

map.add_child(fgv)
map.add_child(fgp)
map.add_child(folium.LayerControl())

map.save("Map1.html")
```