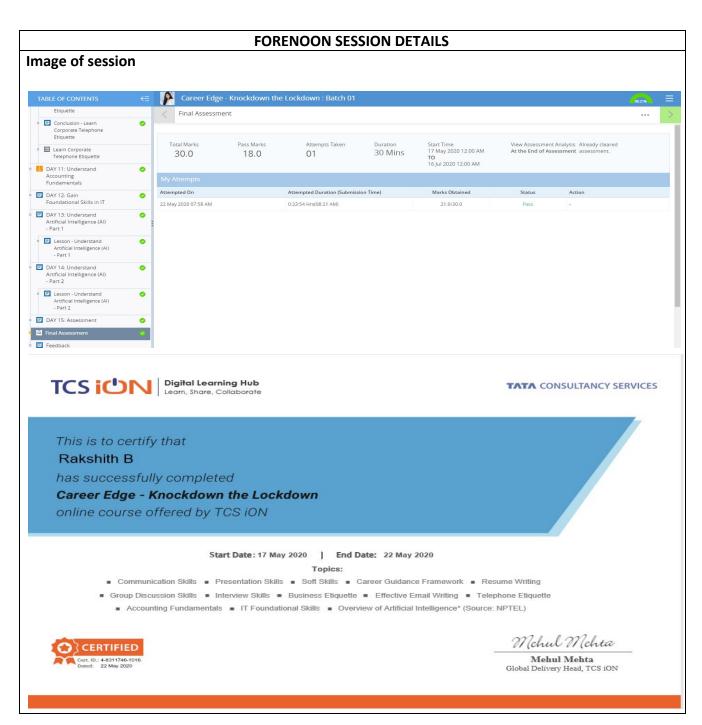
REPORT MAY 22

Date:	22 MAY 2020	Name:	Rakshith B
Course:	TCSION CARRIER EDGE	USN:	4AL16EC409
Topic:	Understand Artificial Intelligence-Part-1, Part-2, Assessment	Semester & Section:	6th SEM B
Github Repository:	Rakshith-B		



Report — Understanding Artificial Intelligence Goals of Artificial Intelligence: Introduce you to the Yield of AI To Explain the Challenges in Building on Intelligent System To Explain the Key Paradigms Core Techniques Algorithms After this Course you will be able to Formulate Problems as State Space Search, Problems and Efficiently Solve Them Write Game Playing Programs Use Machine Learning to Find Patterns to Data Building Expert Systems
Introduction: • Definition of AI
• Example Systems
Approaches to Al Disfillation
Brief History What is AI ?
It is Concerned with the Design of Intelligence in an Artificial Device.
 Term Coined by Mc.Carthy in 1956
 Artificial Intelligence is Concerned with the Design of Intelligence in an Artificial Device
What is Intelligence ? • Behave as Intelligently as Humans • Behave in the Best Possible Manner • Thinking • Acting
The Turing Test: Results It is Interrogator Cannot Reliably Distinguish the Human from the Computer, Then the Computer does Possess Intelligence
Typical AI Problems: ■ Intelligent Entities need to be able to do both "Mundane "and" Expert" Tasks. □ Planning Route, Activity
Recognizing People, Objects
☐ Communicating
Navigating Around Obstacles on the StreetExpert Tasks :
Expert Tasks:
☐ Mathematical Problem Solving

Intelligence Behaviour

- Perception
- Reasoning
- learning
- Understanding Language
- Solving Problems

Applications:

- Computer Vision
- Image Recognition
- Robotics
- Language Processing
- Speech Processing

Internet Agents:

- Monitor user Tasks
- Seeks Needed Information
- Learn Which Information is Most Useful

AI Topics

- Core Areas
- Perception
- Uncertainty
- General Algorithms
- Applications
- Decision Theory Reasoning with Symbolic Data

Limits of AI Today

- Today Successful AI System
 - Operate in well-Defined Domains
 - Employ Narrow, Specialized Knowledge
- Commonsense Knowledge
 - Needed in Complex,Opens Ended Worlds
 - Understand Unconstrained Natural Language

What can AI Systems do?

- Computer Vision :Face Recognition
- Robotics : Autonomous Automobile
- Natural Language Processing :Simple Machine Translation
- Expert Systems : Medical Diagnosis in a Narrow Domain
- Spoken Language: 1000 Words Continuous Speech
- Planning and Scheduling: Hubble Telescope Experiments
- Learning
- Gaming: Grand Master Level in Chess(World Champion), Checkers, etc...



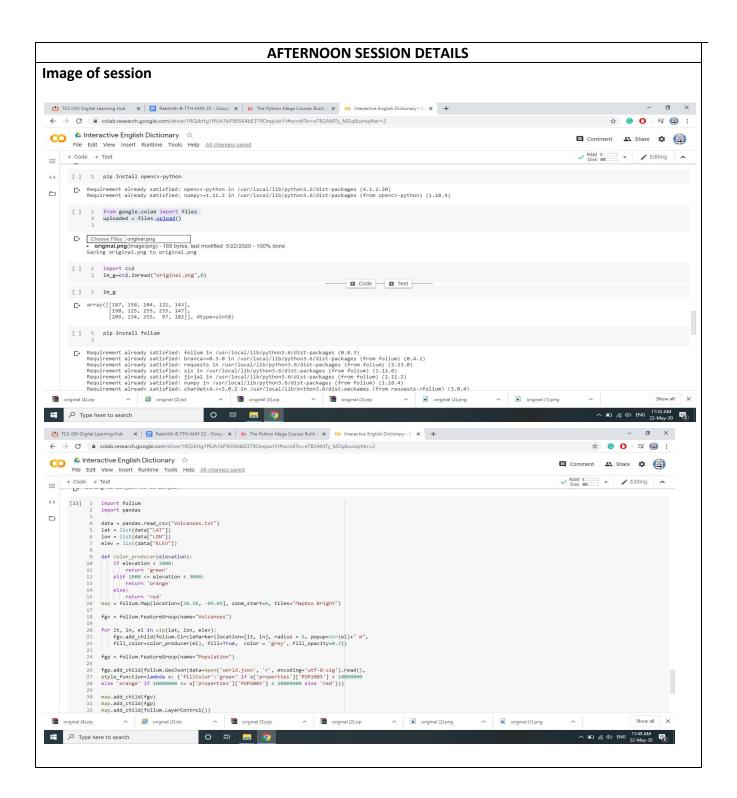
- Understand Natural Language Robustly
- Read and Understand article in a Newspaper
- Surf the Web
- Learn a Natural Language

Date: 22 MAY 2020 Course: PYTHON On Udemy

Topic: Create Web Maps with Python and

Folium

Name:RAKSHITH B
USN:4AL16EC409
Semester & Section:6 B



```
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 It, In, 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")
```