DAILY ASSESSMENT FORMAT

Date:	22/05/20202	Name:	Kishan shetty
Course:	TCS-ION	USN:	4AL17ec041
Topic:	Understand Artificial Intelligence (AI) - Part 1 Understand Artificial Intelligence (AI) - Part 2	Semester & Section:	6th,A
Github Repository:	Kishanshetty-041		

FORENOON SESSION DETAILS



TATA CONSULTANCY SERVICES

This is to certify that

Kishan Shetty

has successfully completed

Career Edge - Knockdown the Lockdown

online course offered by TCS iON

Start Date: 17 May 2020 | End Date: 22 May 2020

Topics:

- Communication Skills Presentation Skills Soft Skills Career Guidance Framework Resume Writing
- Group Discussion Skills Interview Skills Business Etiquette Effective Email Writing Telephone Etiquette
 - Accounting Fundamentals IT Foundational Skills Overview of Artificial Intelligence* (Source: NPTEL)

CERTIFIED

Cert. ID.: 4-8316286-1016

Dated: 22 May 2020

Mehul Mehta Global Delivery Head, TCS iON

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	canding Artificial Intelligence 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		
What is Intelligence ?			
•	Behave as Intelligently as Humans		
•	Behave in the Best Possible Manner		
•	Thinking Acting		
•	Acting		
Typica	Al 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 Street		
•	Expert Tasks :		
	Medical Diagnosis		
	Mathematical Problem Solving		
Intellig	ence Behaviour		
•	Perception Reasoning		
•	learning		
•	Understanding Language		
•	Solving Problems		
Applica	ations:		
•	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...

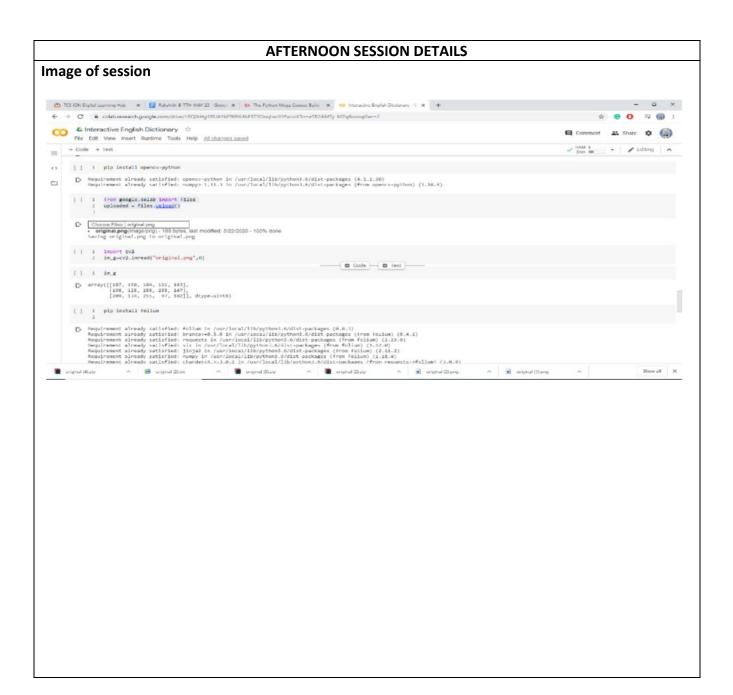
What AI Cannot do?

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

Date: 22/05/2020 Name: Kishan shetty
Course: Python USN: 4AL17EC041

Topic: Application 2: Create Webmaps with Semester 6th,A

Python and Folium & Section:



```
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")
```