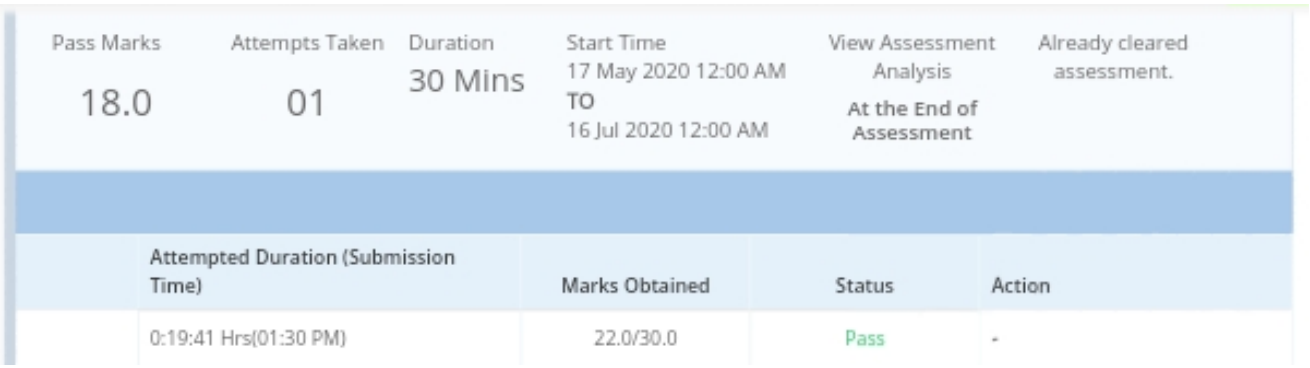
DAILY ASSESSMENT FORMAT

Date:	22nd May 2020	**Name:**	Soundarya NA
Course:	TCS ION	**USN:**	4AL16EC077
Topic:	Understand Aritificial Intelligence (AI) – Part 1 Understand Aritificial Intelligence (AI) – Part 2 Assessment	**Semester & Section:**	8th - B
Github Repository:	Soundaryana-courses		

FORENOON SESSION DETAILS

Image of session



Report:

Artificial Intelligence:

Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving.
The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have the best chance of achieving a specific goal.

Application of Artificial Intelligence:

The applications for artificial intelligence are endless. The technology can be applied to many different sectors and industries. AI is being tested and used in the healthcare industry for dosing drugs and different treatment in patients, and for surgical procedures in the operating room.

Other examples of machines with artificial intelligence include computers that play chess and self-driving cars. Each of these machines must weigh the consequences of any action they take, as each action will impact the end result. In chess, the end result is winning the game. For self-driving cars, the computer system must account for all external data and compute it to act in a way that prevents a collision.

Artificial intelligence also has applications in the financial industry, where it is used to detect and flag activity in banking and finance such as unusual debit card usage and large account deposits all of which help a bank's fraud department. Applications for AI are also being used to help streamline and make trading easier. This is done by making supply, demand, and pricing of securities easier to estimate.

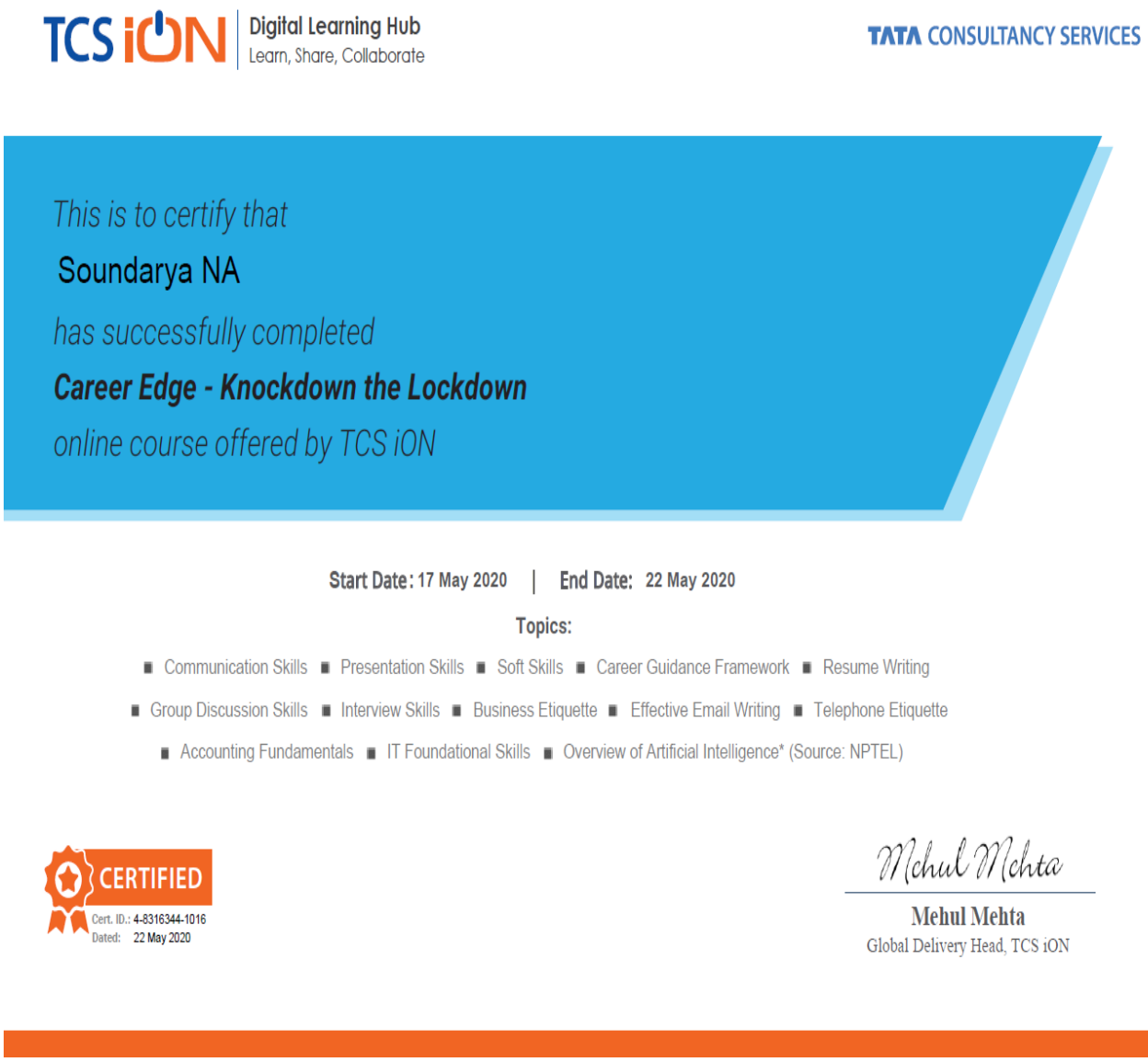
Categorization of Artificial Intelligence:

Artificial intelligence can be divided into two different categories: weak and strong.

Weak artificial intelligence embodies a system designed to carry out one particular job. Weak AI systems include video games such as the chess example from above and personal assistants such as Amazon's Alexa and Apple's Siri. You ask the assistant a question, it answers it for you.

Strong artificial intelligence systems are systems that carry on the tasks considered to be human-like. These tend to be more complex and complicated systems. They are programmed to handle situations in which they may be required to problem solve without having a person intervene. These kinds of systems can be found in applications like self-driving cars or in hospital operating rooms.

Certificate:



TCS iON | Digital Learning Hub
Learn, Share, Collaborate

TATA CONSULTANCY SERVICES

This is to certify that

Soundarya NA

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)

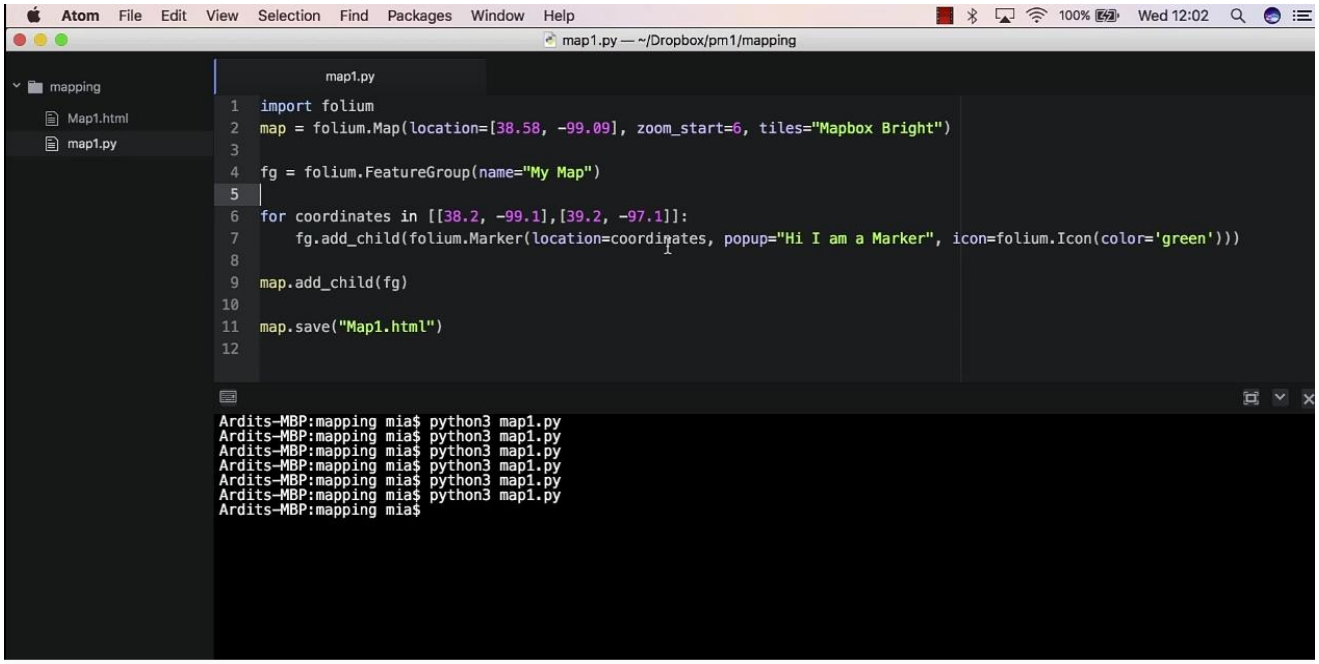
CERTIFIED
Cert. ID.: 4-8316344-1016
Dated: 22 May 2020

Mehul Mehta
Mehul Mehta
Global Delivery Head, TCS iON

Date:	22nd May 2020	**Name:**	Soundarya NA
Course:	UDEMY	**USN:**	4AL16EC077
Topic:	PYTHON: Application 2: Create Webmaps with Python and Folium Fixing Programming Errors	**Semester & Section:**	8th - B

AFTERNOON SESSION DETAILS

Image of session



Report:

Code:

```
import folium
map = folium.Map (location=[38.58, -99.09], zoom_start=6, tiles="Mapbox Bright")
fg = folium.FeatureGroup (name="My Mao")
fg.add_child (folium.Marker(location=[38.2, -99.1], popup="Hi I am a Marker", icon=folium.Icon='green')))
map.save("Map1.html")
```

Mapbox Bright and Stament Terrain are both types of basemaps, but Mapbox Bright doesn't work anymore. Stamen Terrian works great and you will see it creates a beautiful relief map.

Code:

```
import folium
import pandas
data = pandas.read_csv("Volcanoes.txt")
lat = list(data ["LAT"])
lon = list (data ["LON"])
elev = list (data ["ELEV"])
map = folium.Map(location=[38.58, -99.09], zoom_start=6, tiles="Mapbox Bright")
fg = folium.FeatureGroup(name="My Map")
for lt, ln, el in zip(lat, lon, elev):
fg,add_child(folium.Marker(location=[lt, lnl, popup=str(el)+"m", icon=folium.Icon(color='green'))
map.add_child(fg)
map.save("Map1.html")
```