

Artificial intelligence part 1 & part 2

* Understand Artificial intelligence (Part 1)

- AI is concerned with design of intelligence in an artificial device
- thought process / behaviour.
- Symbolic integration, perception, Reasoning, learning.
- Applications of AI -
 - Computer vision
 - Image Recognition
 - Robotics
 - Language processing
- Autonomous land vehicle in a natural world
- Machine translation
- Approaches to solve AI
 - Strong AI aims to build machines that can truly reason & solve problems which is self aware & whose overall intellectual objectives are indistinguishable from that of a human being
 - Weak AI deals with the creation of some form of computer-based artificial intelligence that can truly reason & solve problems, but can act as if it were intelligent. They can simulate human cognition.

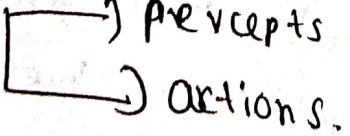
* Limits of AI today:

→ Operates in well defined domain.

Part - 2

- An agent perceives its environment through sensors.
- It can change the environment through effectors.
- Rationality.
- Perfect Rationality: Assumes that the rational agent knows all & will take the action that maximize her utility.
- Bounded Rationality: Because of the limitation of human mind humans must use appropriate methods to handle many tasks.
- Rational action: The action that minimize the expected value of the performance.

* Environment : Episodicity :-

- An episodic environment means that subsequent episodes do not depend on what actions occurred in previous episodes.
- Environment - Dynamics.
Static environment, Dynamic environment.
- Environment complexity, includes knowledge rich, if rich.
- Agent 

This is to certify that
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has successfully completed
Career Edge - Knockdown the Lockdown
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Section 14: Project exercise with python & MySQL

- import mysql connector
con = mysql.connector.connect(
user = "ardit700-student",
password = "ardit700-student",
host = "108.167.140.121",
database = "ardit700-pm1database"
)
cursor = con.cursor()
query = cursor.execute("SELECT * from dictionary")
results = cursor.fetchall()
Print(results)

Section 15: Data Analysis with Pandas

- Visualization library such as bokch
- Use pandas to load data structures.
- Installing pandas -
pip install pandas or pip install pandas
ipython - pip install ipython or pip install ipython
- Jupyter Notebook:-
- loading CSV files
import pandas
df1 = pandas.read_csv("supermarket.csv")
- loading excel files:-
pip install xlrd or pip install xlwt
- loading txt files:-
df1 = pandas.read_csv("supermarket.txt", sep)

- set header row

```
df1 = panda.read_csv("data.txt", header=None)
```

- set columns names -

```
df8.columns = ["ID", "Address", "city"]
```

- set index column:-

```
df8.set_index("ID")
```

- Indexing & Slicing

```
df1.iloc[3; 1:k]
```

- Detecting columns & rows

```
df7.drop("city")
```

- updating & adding new columns & Rows

```
df7 + ["Address", "city"]
```

```
df7 = df7 + T
```