DAILY ASSESSMENT FORMAT

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| Date: | 22/5/2020 | Name: | Akshay |
| Course: | TCS ION | USN: | 4al17ec008 |
| Topic: | Understand Artificial Intelligence (AI) - Part 1  Understand Artificial Intelligence (AI) - Part 2 | Semester & Section: | 6th A |
| Github Repository: | Akshay-Online-Course |  |  |

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| FORENOON SESSION DETAILS |
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| Report  Understand Artificial intelligence (Ai) Part 1  In this course we are able to understand the role of basic knowledge representation, problem solving, learning methods in Ai in engineering intelligent systems.  Objectives  • Develop intelligent systems by assembling solutions to concrete computational problems Appreciate the role of problem solving, natural language processing and vision in understanding human intelligence from a computational perspective  Goals  Write game playing programs  • Formulate problem as state space search problem and efficiently solve them • • use machine learning to find patterns in data Build expert systems  What is Ai?  Artificial Intelligence is concerned with the design of intelligence in an artificial device.  Typical Ai Problems Intelligent entities (or "agents") need to be able to do both mundane and expert tasks:  Mundane tasks Planning route, activity  Recognizing (through vision) people, objects  Communicating (through natural language) Navigating around obstacles on the street.  Expert tasks Medical diagnosis Mathematical Problem solving  Intelligent behavior Perception  • Rravaning  • Learning  • Understanding language Solving problems  Applications Computer vision  • Image recognition  • Robotics Language processing  Configuring products  Practical impact of Al Al components are embedded in numerous device Al systems are in every use  • Detecting credit card fraud •  • Aiding complex planning tasks Advising physicians  Approaches to A Strong Ai aims to build machine that can truly reason and solve problems which is self aware and whose overal intellectual ability is indistinguishable from that of a human being Human like Non-human like  Weal Al: 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.  Weal Al holds that suitably programmed machine can simulate human cognition  Strong Al maintains that suitably programmed machine is capable of cognitive metal states  Limits od Al today Today's successful Al systems  • Operate in well-defined domains Employ narrow, specialized knowledge  Commonsense knowledge Understand unconstrained natural language Needed in complex and open-ended world up |

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| Date:22/5/2020 |  | Name: Akshay |  | |
| Course: | Python | USN:4al17ec008 |  | |
| Topic: | Application 2: Create Web maps with Python and Folium | Semester the & Section: 6 A |  | |
| AFTERNOON SESSION DETAILS | | | |
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| Report  Instal OpenCV.  1. Open the command line and type.  Pip install opencv-python  2. Open a Python session and try  Import cv2  3. If you get no crrors you installed OpenCV successfully,  may problem occurs  1. My OpenCV installation didn't work on Windows  Solution:  . Uninstall OpenCV with  • Pip uninstall opencv python • z Download a wheel whl) file from this link and install the file with pip Make sure you download the correct file for your Windows and your Python versions. For example, for Python  3.6 on Windows 64 bit you would do this  • Pip install eprnicvyihern-3.20-ep3om-wiramd64 whl  .  Try to import cv2 in Python again. If there's sil an error, lype the following again in the COmmand line  • Pip install opencv python  4. Try importing  2 again. It should work at this point,  2. My OpenCV Installation didn't work on Mac  Solution  If pip install opencv python didn't work Install OpenCV for Python 2 and use Python 2 to run the programs that contains V2 code. Because Python 2 is installed by default on Mac, you don't need to install Python 2.  Here are the steps to correctly install OpenCV:  • Install brew.  • To install and operate your email and execute the following    OpenCV depends on GTK-, terminal):  Brew install gtk  • Install OpenCV with brew  Brew install opencv  • Open Python 2 by typing:  python  Import cv2 in Python  Import cv2  so install that dependency first with brew (always Irom the  If you get no errors. you installed OpenCV successfully | | | |