

## Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

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Class:	Semester:	$\overline{\mathcal{Q}}$
Course Code:	Course Name:	Artificial Intelligence

Name of Student:	Sainath Khot
Roll No. :	20
Assignment No.:	
Title of Assignment:	Introduction to AI
Date of Submission:	18/7/24
Date of Correction:	291 7/19

## Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	03
Demonstrated Knowledge	3	03
Legibility	2	01
Total	10	of

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	3	2	1
Legibility	2	1	0

## Checked by

Name of Faculty

: Miss Rujuta Vartak

Signature

:

Date

: Salth

01 when designing on AI for autonomous delivery =) drows in when areas, it is imported to define the PEAS [ Performance measure, Environment, Actuators and Sensons of Francusch Performana Masure: i) Deliung efficiency: Timeliness of deliunis Minimizing offer delays. a) Acourary: Cornerthy delivering to intended s) Safety. Avoiding collision with obstacles such as building , trees , wirer other dranes , etc n) Energy efficiency: Minimizing battery whoumpain & maximizing flight time. s) Complaince: Add adhering to local regulations & our traffic control. 1) Crowded whom areas with buildings, power line trem and other obstacles. 2) Variable of meather condition ( wind, rain, do) 3) Potential interference from other a) Interactions with pudestrians, while and draws. Advantages: (1) Propellions I motors: For untical and horizontal moment (a) Londing gran for safetakulf & landing (3) Grippin or Comportante to securely hold a reliase packages. Sundaram

	(a) Storing mechanisms to control the draw's direction
	6 oxientian:
	E O FIGURE
	Sensors:
	1 - lains & can ywine
	The Option
	le parkage delivery verification.
	a company la montar au accident
	(3) Mirelys communication modules to receive
	instructions a transmit status updates.
6/-	
Δ2	Here's the PEAS for an autonomous taxi during
_ m	rust hour:
	Performance measure:
(1)	Partiality: Arriving at the distinction on time
	dispite heavy traffic.
(2)	Safety: Avoiding collissions with other which
	pedistrians and obstaclis.
(3)	Passenger Confort: Govering a smooth ride with
	minumal almost steps or turns.
(1)	Complance Adhring to Ivalic lunes and regulations
(2)	Mainy optimizing routes to mining trail
	time and energy consumption.

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Environment: Dende when trafific with cars, buson, pedistrans ont other obstacles. Variable road conditions (potholes construction game traffic signals. Changing weather condition ( rain, snow, fog) Potential interference with GPs or wreliss communication signals. Opnating within legal boundaries, including speed limits, restricted areas a parting rules. angine Imotor: For propoloion and controlling speed. Sterring system for maneururing the while. Breaking system For decelerating and stopping the Suspension system: For nouring a smooth ride Door mechanisms: For passingers entry and rist Commication system: for sending and receiving (5) Jata to I from wentral centers and other whiles Enps for real time location tracking and navigation Camera for object discition, lane recognation & traffic Rador & Liear Sinsons for detailing monly vehille. pedestrains and obstacles. FOR EDUCATIONAL USE Sundaram ®

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	@ Ultrasonic sensors for prozinity detection & parking	No. of the second
	(5) Acalerometers and gyrometers (gyrosupper firestability and motion control	pidentingda. vil
	6 Weather Sensors la monitor environmental conditions such as ran, temperature, etc.	
		$\exists$
		aller engelengsprompte od kan som och
		Order of the second of the sec
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