MAME: KRUNAL RANK Apm. No: U18(0081 BTECH JEAR

## AVML Tutorial.4

Ans! There are many enamples where Machine Learning is implemented in our day to day lives. Some of the examples are as billoius:

Virtual Personal Assistants:

Sin, Alexa, Google Now are some of the popular examples of Virtual Personal Assistants. As the name suggests, they assist in finding information when asked over voice.

They collect and refine the information on the basis of previous interactions with them.

Later this set of info data is utilized to render yearth that are tailored to the user's experience.

They can be improved further in a way that they can automatically detect health issues for the user via their voice, sleeping patterns, frequency of usage through which they can then inform the view of their degrading health and necessary steps to be taken.

Choogle Maps is a well known Service that provides . Gots as well as guidance services for people in transit. They collect date. from their were particularly were who are moving mainly their positions and main this date in accordance with other previously collected date to generate estimated traffic reports while in the user is guided to the path with least resistance.

However, recently a user created a large virtual traffic on google maps by collecting a massive number of

cellphones in a trolley cart and switched their ocalists on a trolley cart and switched their ocalists on the one condition. This made Groupe Maps assume the Anazis the vocal where the cart was going through had a load of trafficial trafficial be prevented. It can be such types of incidents need to be prevented. It can be such types of incidents need to be prevented and winner of the conditions. done using Precise Location feature and using density of devices rather than number for ai particular · Social Media Services In today's world, Social Media has become the epitom of communication and managing oners personality air Social Midia: profiles has also become important for such people. Ans 3 Machine Learning allows users to connect to different strangers with similar interests and locations, bused of the users interaction with the application mainly.
Their likes and dislikes, their favourte type of content the uptime etc. Sometimes, it is observed that the model suggests interior people quite frequently which may make the user parameters. It is can be prevented by increasing the bias factor with predictions to make the user felt factor more comfortable will increase the user felt factor more comfortable while using the application of state

0		Dim II
hon	M23	The parameters through which a Search algorithm can be evaluated are as follows:
2		Time Complexity - It is a theoretical measure of how long will
be	i	It take to reach the goal state in terms of several factors such as branching factor cost of solutions, et
làr	•	Space Complexity & It is the amount of memory required in proportional to the factors associated with the algorithm.
		Completeness: It is a property which determines whether
		an algorithm is able to reach the goal state.
ne	<u>·</u>	Optimality: It is a property which determines the number of steps in reaching the solution.
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	M3;	The Bredth First Search can be evaluated as follows: Let s= depth of shallowest solution, n'=no: of nodes at level i
nt		Time Complexity:  Equivalent to the number nodes traversed in BFS until the
don-		shallowest solution.  T(n) = 1 + n+n <sup>2</sup> + - +n <sup>s</sup> = O(n <sup>s</sup> ):
their		man is it is the trainer of the is the first many
110	-	Space Complexity: Equivalent to how large can a fringe get S(n)=D(n)
ramid		2 11 DCS is complete.
ore		Completeness > BFS is complete.  Ophimality > BFS is ophimal as long as the cost of all edges are equal.
		ledges are equal.
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