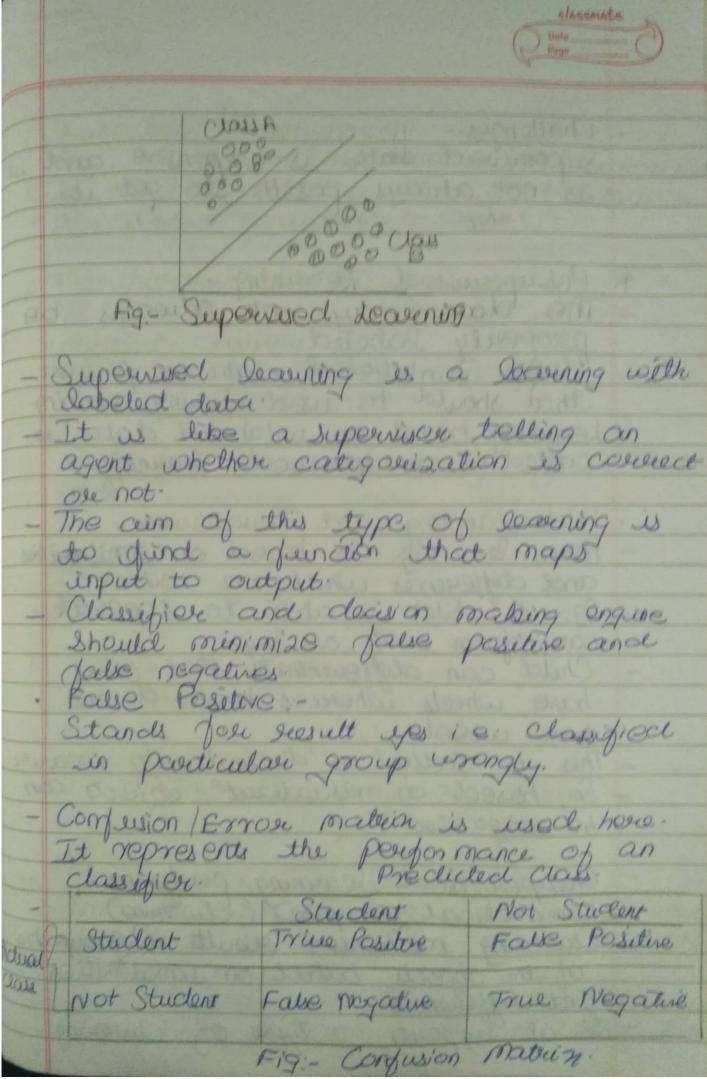
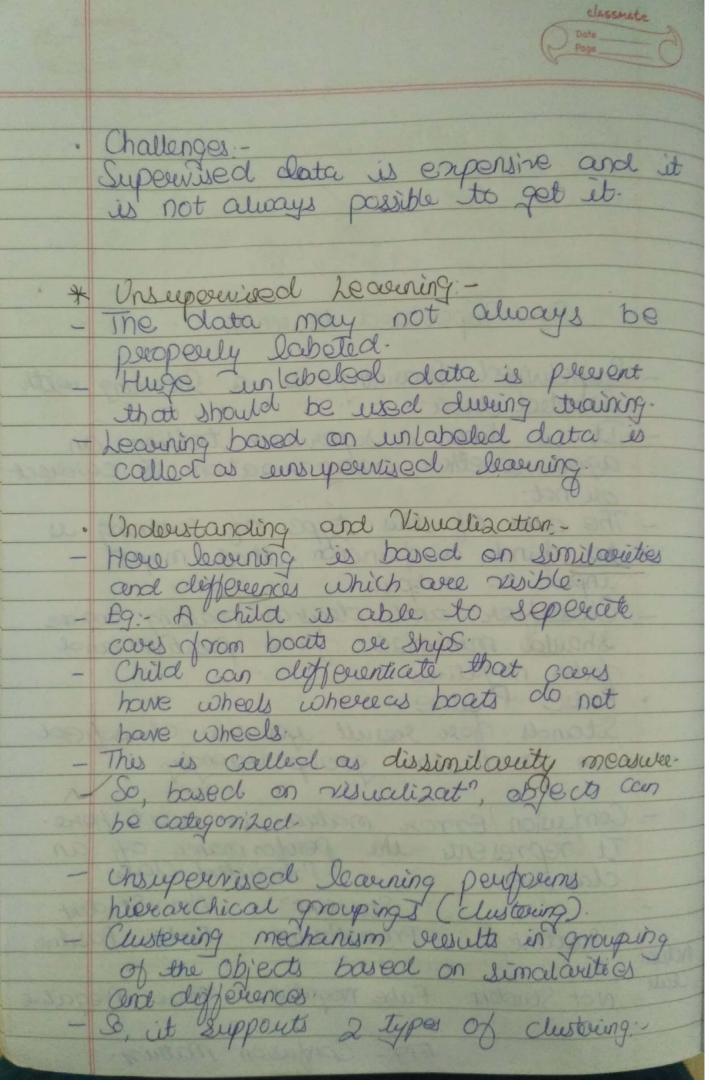
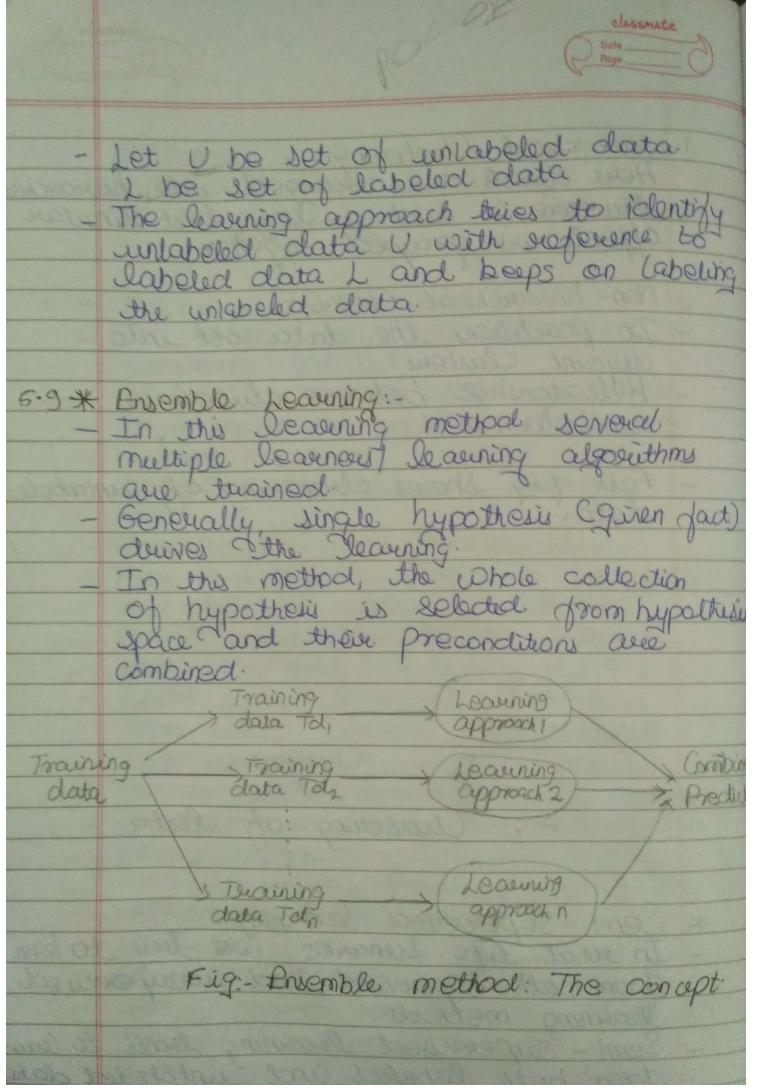


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	- The hand during a represented to
	decues face
* 00 *	Supervised Leaving:- The classification problem consist of fell entities:-
-	The classification problem consist of
Dioboni	dell'entities.
P	Labeled Octa Set
	Some available documents and their
State St.	classes is known
2	A progream that maps input documents to appropriate classes.
	A progream that maps input documents
	to appropriate classes.
-	
-	Foll dig shows how labeled data is classified into two different dasses:
	is classified into two defferent
	classes:-





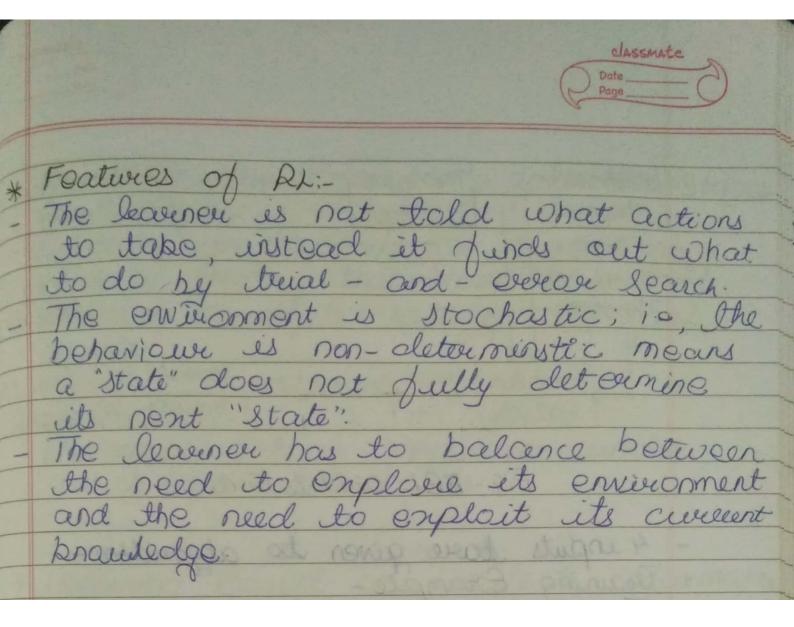
classmate Hierachical Clustering:-Here objects are averanged into hierorichical structure in such a leay that similar Non- hierarchical Clustering:-It partitions the data set into disjoint clusters Releatorships between cluteres is und eternised. foll jig. shows clustering of unlabeled data: 000 000 000 Unlabeled Clusters Data Fig: Clustering of doeta. * Semi - Supervised leaving -In seeal lige Scenarios we Try to lean from both supervised and unsupervised Semi - Supervised leaving tries to lown grow both labeled and unlabeled data



* Reinforcement Learning:-- RL is a machine leaving approaches whom agent employes an environment - The agent perceives its current state and takes actions - The environment in return provides a reward as positive or negative.

- The algorithm tries to find a policy for mannizing reward for the agent. - Definition:-RL is a computational approach to leaving Where an agent tries to manimize the total amount of reward it receives when interacting with complen uncertain environment. · RL Problem-- It is a goal directed problem and agent the uses its decision making capabilities. It is a supervised leavening approach RL emphasizes leavening from entract"

classmate with its envisionment. - RL uses a documal framework dor depiring interaction between a learning agent and its environment in terms of states, actions and rewards Agent reward State + Envisionment Fig:- Agent-Environment Interaction. - For every interaction, agent gets some input i. - This i gives brief detail about the covert state Based on this input agent takes an action a - Every action when executed results in the teransition to a new state and a value associated with its teansition is given to the agent by means of a signal known as reinfarcement signal The goal is to choose the actions that manimize the dinal summation of se value



* Artifical Newal Network: - (ANN) - The human brain is composed of billion nerve cells called as neurons - A newson can send a message to other Demon. A neweal network is an artifical representation of human brain that these to simulate its learning process - An ANN is often called as neweal N/w. + A newal networks model a brain which is called as leaving by enample. A newal network typically take a vector of input values and produce a rector of output values + Inside they terain weights of "newcon".

