Machine Learning

Module-1: - Introduction to Machine Learning

- 1) Define Machine Learning & explain with example importance of Machine Learning.
- 2) What are the Key tasks of Machine Learning?
- 3) Explain how supervised learning is different from Unsupervised learning.
- 4) What are the issues in Machine learning?
- 5) What are the Steps required to Select the right machine learning algorithm?
- 6) Explain the Steps for developing Machine Learning applications
- 7) Write a Short note on: Machine Learning Applications
- 8) Define Underfitting, Overfitting, Bias, Variance Trade off

Module-2: - Mathematical Foundation of ML
* All Sums about Eigen Values, Vectors, Diagonalization*
1) Explain SVD with its applications
Module-3:- Linear Models
1) Explain Regression & its Types
2) What is SVM! Explain the following terms:
2) What is SVM! Explain the following terms: Seperating hyperplane, margin & Support Vectors with Suitable example
3) Quadratic Programming Solution for finding maximum margin Seperation in Support Vector Machine.
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Module 11 1- Children	
Module-4:- Clustering	Tr.
1) Evoluin Hobbins Chuterina	1
1) Explain Hebbian Clustering	
2) Explain Expectation Maximization Clustering in	
2) Explain Expectation Maximization Clustering in Brief	
3) Define K-means & DB3CAN	
Module - 5: - Clasification Models	
1) Explain the operations of Dendrite, 30ma 4 axon in the biological neuron.	
in the biological neuron.	
2) Differentiate Biological Neurol Network & Artificial Neural Network.	
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TVEUTAT TVETWOTK.	
3) Draw & Explain McCulloch Pitts neuron	
3) Draw & Explain McCulloch Pitts neuron architecture	
What are the performance measures to see	
whether training of neural network is	
What are the performance measures to see whether training of neural network is Successful? Explain.	
5) Explain Common activation functions used in Neural Network	7
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6) Write a Short Note on: logistic Kegrenion Module - 6: - Dimensionality Reduction 1) Explain Feature Selection & Feature Extraction 2) Why Dimensionality Reduction is very important Step in Machine Learning? 3) Explain Principal Component Analysis for Dimension Reduction in detail: * Principal Component Analysis Sums