

QUESTION BANK ON UNIT-I

1. Explain in detail distance based methods? [10M]
2. Discuss the nearest neighbour with a neat sketch? [10M]
3. What is decision trees .Explain in detail? [10M]
4. Write a detail note on naïve bayes linear models? [10M]
5. What is support vector machine .Discuss in detail? [10M]
6. Explain the following
 - a)Linear regression [05M]
 - b) Logistic Regression [05M]
7. Define Multiclass Classification with a neat diagram? [10M]
8. Give a detail note on kernel methods? [10M]
9. Define ranking and its concepts? [10M]
10. What is the significance of classification & explain their types? [10M]

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Regulation: R19
Branch & Specialization: CSE

QUESTION BANK ON UNIT-II

1. Define clustering. What are the different types of clustering explain in detail? [10M]
2. Explain generative models in detail. [10M]
3. Discuss PCA and its kernel PCA? [10M]
4. Explain the following
 - a) Matrix completion [05M]
 - b) Generative Models [05M]
5. How Matrix factorization works in PCA. Explain in detail? [10M]
6. Explain PCA and its process with their applications. [10M]
7. Explain in detail the concept of Kernel and K- Means? [10M]
8. Give a detail note on Mixture models in machine Learning. [10M]
9. Explain Latent factor model and its uses? [10M]
10. Define Matrix Completion and its uses? [10M]

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QUESTION BANK ON UNIT-III

1. Explain the evaluation technology of machine learning algorithm? [10M]
2. Define Model Selection & Discuss in detail? [10M]
3. Define statistical theory how it is performed in machine learning? [10M]
4. What is Boosting.Discuss with neat relevant example? [10M]
5. Explain the concept of Bagging with its uses? [10M]
6. What is Random forest? Explain with example? [10M]
7. Explain any 2 machine learning algorithms and their performance factors? [10M]
8. Discuss Linear Discriminate Analysis algorithm with neat sketch? [10M]
- 9.Discuss Learning Vector Quantization algorithm with neat sketch? [10M]
10. Explain boosting and ADA boosting algorithm with neat sketch? [10M]

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QUESTION BANK ON UNIT-IV

1. What is Sparse Modelling? Explain its functions? [10M]
2. Explain the concept of modelling sequence timing series data? [10M]
3. What is deep learning discuss its importance? [10M]
4. Define the following
 - a) Semi supervised learning [05M]
 - b) Active learning [05M]
5. Discuss scalable Machine learning with distributed & online? [10M]
6. How does inference in graphic model occurs explain the technology? [10M]
7. What is reinforcement learning explain its detailed concepts? [10M]
8. Define Bayesian learning & how it impacts in machine learning? [10M]
9. Discuss the feature representation learning? [10M]
10. How to estimate sparse modelling? [10M]

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QUESTION BANK ON UNIT-V

1. Define learning techniques & explain in detail? [10M]
2. Discuss the recent trends in various learning techniques of machine learning? [10M]
3. Explain IOT and its features with any one application? [10M]
4. Give a detail note on Classification methods for IOT with neat sketch? [10M]
5. Explain the various models for IOT applications discuss with example? [10M]
6. What are advantages and disadvantages of IOT discuss with real time example? [10M]
7. Write a note on:
 - a. Trust for IoT & Security and Privacy for IoT [05M]
 - b. Physical IoT Security [05M]
8. Explain different networking and communication model in IoT. [10M]
9. Describe the properties of smart physical objects. [10M]
10. Describe the design principles for IoT. [10M]