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| INTELLIGENT SYSTEM | | | |
| 1. | a. | Define Environment of an Agent. Write Short notes on Utility-Based Agent. | 7 |
|  | b. | What is Genetic Algorithm? Explain with an Example. | 8 |
| 2. | a. | What is Swarm Intelligence? Explain about working of Ant Colony System. | 7 |
|  | b. | Define Pattern Classification. Write short notes on Nearest Neighbor method of Classification. How we draw decision boundary? | 8 |
| 3. | a. | What are the sources of Uncertain Data? Write about Markov Model and HMM. | 7 |
|  | b. | Write about the Stages in development of Expert System. | 8 |
| 4 |  | Write short notes on any one. | (1X5) |
|  | a. | Particle Swarm Intelligence. |  |
|  | b. | GA Operators. |  |