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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | MACHINE LEARNING | 1.Machine learning is a method of data analysis that automates analytical model building. It is a branch of artificial intelligence based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention.  2.A major benefit of machine learning is its ability to predict student performance. By “learning” about each student, the technology can identify weaknesses and suggests ways to improve, such as additional practice tests. Machine learning can help move away from standardized testing according to Rose Luckin  3. Applications of Machine learning   * Image Recognition: Image recognition is one of the most common applications of machine learning. * Speech Recognition. * Traffic prediction: * Product recommendations: * Self-driving cars: * Email Spam and Malware Filtering: * Virtual Personal Assistant: * Online Fraud Detection   . | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO5:Modern Tool Uses |  |
|  |  | PO12: Life-long  Learning. |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
|  |  | PSO3: Successful |
|  |  | career and |
|  |  | entrepreneurship |
|  |  | **CO1:Study** fundamental issues and **find** solutions to problems relevant to machine learning  **CO2:Study and reproduce** theimplementation of decision tree algorithm to solve different problems.  **CO3:Comprehend and apply** Artificial Neural Network techniques to solve certain problems in Machine Learning  **CO4:Conceptualize and visualize** the statistical hypothesis and probabilities using Bayesian learning theorem to solve the problem in machine learning  **CO5:Evaluating and estimating** the accuracy of hypothesis model in machine learning and understand and **apply** instance based and reinforcement learning |
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