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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 Usage  PO6: Engineer and Society  PO7:Environment And Sustainability  PO8:ETHICS |  |
|  |  | PO10:COMMUNICATION  PO11:Project Management and Finance.  PO12: Life-long  Learning. |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
|  |  | PSO3: Successful |
|  |  | career and |
|  |  | entrepreneurship |
|  |  | CO1:Explain fundamental issues, challenges and problems relevant to machine learning  CO2:Analyse and implement Machine Learning algorithms and paradigms of supervised and un-supervised learning  CO3:Apply neural networks, Bayes classifier and k-nearest neighbour, for problems appearing in machine learning  .  CO4:Analyse the Performance of statistical analysis of machine learning techniques.  CO5:Implement machine learning algorithms to solve problems of moderate complexity. |
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