

# Galgotias College of Engineering & Technology

## Details of Lab Equipment : 2023-24

### Department of Computer Science Engineering Labs

**Lab No.-E-101**

**Name: Machine Learning Laboratory**

**Lab/ Major Equipments :** 36Computers (CPU- (Processor) 12th Gen Intel (R) Core (TM) i5 -12500 3.00Ghz

Ram- 16 gb

Rom- SSD 512gb

Mouse - hp

Keyboard - hp

Monitor- 23.8in hp)

**Description of Labs:** The Machine Learning Laboratory offers a dynamic environment for students to delve into the theory and practice of machine learning algorithms and techniques. Through hands-on experiments and projects, participants explore various machine learning models, such as supervised learning, unsupervised learning, and reinforcement learning. The lab provides access to datasets and tools for data preprocessing, model training, and evaluation. Students learn to implement algorithms for tasks like classification, regression, clustering, and anomaly detection. Emphasis is placed on understanding the mathematical principles behind machine learning algorithms and their practical applications. Additionally, the lab encourages experimentation with advanced topics like deep learning and neural networks. By the end of the course, students gain proficiency in applying machine learning techniques to solve real-world problems across diverse domains, from healthcare to finance to robotics.

