

## **Laboratory Infrastructure**

The Department of Artificial Intelligence & Machine Learning is equipped with modern laboratories that support practical learning, experimentation, and research in emerging areas of computing and intelligent systems. These laboratories provide students with hands-on exposure to advanced computing environments and development platforms essential for building strong technical and analytical skills.

The department houses specialized laboratories including **Programming Lab, Data Structure Lab, Operating Systems Lab, Computer Networks Lab, Software Engineering Lab, and AI & ML Project & Research Laboratory**. Each laboratory is equipped with High-Performance Computer Systems, High-Speed Internet Connectivity and Modern Networking facilities to Support Academic and Research Activities.

The laboratories are supported with a variety of software platforms and development tools such as **Python, Java, C/C++, TensorFlow, PyTorch, Scikit-learn, MATLAB, and Database Management Systems**, along with tools for Data Analytics, Machine Learning, Software Development, and Network Simulation.

The **AI & ML Project & Research Laboratory** provides an environment for students to design and develop machine learning models, perform data analysis, and implement AI-based applications. This facility encourages students to undertake Innovative Projects, Research Work and Industry-Oriented Problem Solving.

The laboratory infrastructure fosters an interactive and collaborative learning environment, enabling students to apply theoretical knowledge to real-world challenges and develop Strong Research, Innovation, and Technical Competencies.