Manipal University, Jaipur Vision & Mission Statements:

Vision:

Global Leadership in Higher Education and Human Development

Mission:

Be the most preferred University for innovative and interdisciplinary learning.

Foster academic, research, and professional excellence in all domains

Transform young minds into competent professionals with good human values.

Department of Artificial Intelligence and Machine Learning
Vision & Mission Statements:

<u>Vision:</u>

To achieve excellence in computer science and engineering education with expertise in artificial intelligence & machine learning for global competency with human values

<u>Mission:</u>

- Provide leading-edge academic & research environment to foster competitive engineers in the field of computer science engineering with emphasis on artificial intelligence and machine learning.

- Develop programming, analytical, and statistical modelling skills by Student Centric Activities & Industry Association.

- To cultivate a community of ethical and socially responsible graduates who actively contribute to the betterment of society.

Program Educational Objectives (PEOs)

PEO1: Graduates will follow analytical, problem solving and research-oriented approaches for solving real-world problems by providing AI based solutions.

PEO2: Graduates will continue the process of lifelong learning by attaining professional certificates and seeking higher education.

PEO3: Graduates will demonstrate the ability to establish, lead, and manage entrepreneurship ventures and startups in the field of Artificial Intelligence and Machine Learning.

Program Specific Outcomes (PSOs)

PSO1: Graduates will be able to examine the applications of Artificial Intelligence and Machine Learning in real-life problems.

PSO2: Graduates will be able to design and implement intelligent systems for multidisciplinary problems.

PROGRAM OUTCOMES (POs) - defined by NBA

PO1   Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2   Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3   Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4   Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5   Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6   The Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice.

PO7   Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8   Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO9   Individual and Teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 Life-Long Learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.