

SEMESTER 1

- Fundamentals of Artificial Intelligence and Machine Learning.
- Explore understanding of AI concepts and its different approaches to achieving intelligent behavior of the algorithm.
- Delve into supervised and unsupervised learning algorithms.
- Explore the essential mathematical concepts for machine learning which includes linear algebra, probability theory and calculus.
- Leverage the applications of both R studio and Python.

SEMESTER 2

- Advanced Machine Learning and AI based algorithm.
- Advance mathematical concepts.
- Algorithms and techniques for handling imbalanced datasets.
- To tackle complex machine learning problems.
- Build robust models, and navigate ethical considerations in AI development.

SEMESTER 3

- Advanced AI and Machine Learning knowledge to solve real-world challenges.
- Algorithms for image text and video analysis.
- Object detection, image segmentation, and applications like autonomous vehicles and medical image analysis.
- Specialize in a chosen area of AI or Machine Learning.
- Gain the expertise to design, implement, and deploy scalable solutions for real-world impact.

SEMESTER 4

- Live projects in association with industry in the area AI/ML applications.
- Industry internships/research collaborations with industries in the field of AI/ML applications.