Artificial Intelligence Course Syllabus

Introduction to Artificial Intelligence

- Defining Artificial Intelligence and its scope
- Historical overview and evolution of AI
- Real-world applications of AI
- Setting the stage for beginner-friendly AI exploration

Basics of Machine Learning

- Understanding the core concepts of machine learning
- Supervised learning, unsupervised learning, and reinforcement learning
- Overview of algorithms: Decision trees, linear regression, and clustering
- Hands-on exercises using beginner-friendly machine learning tools

Introduction to Neural Networks and Deep Learning

- Basics of neural networks and their structure
- Introduction to deep learning and its significance
- Popular deep learning architectures (e.g., feedforward, convolutional, recurrent)
- Simple hands-on projects with beginner-friendly deep learning frameworks

Natural Language Processing (NLP) and Computer Vision (CV) Basics

- Understanding NLP and its applications
- Basics of text processing, sentiment analysis, and language models
- Introduction to computer vision and image recognition
- Hands-on projects exploring NLP and CV with user-friendly tools

AI Ethics, Future Trends, and Final Projects

- Exploring ethical considerations in AI
- Current and future trends in AI
- Working on a small AI project using pre-built tools
- Presenting and sharing insights from final projects

Final Course Outcomes

- Hands on experience with real time projects
- Industry Recognized Certificate
- Placement Assistance