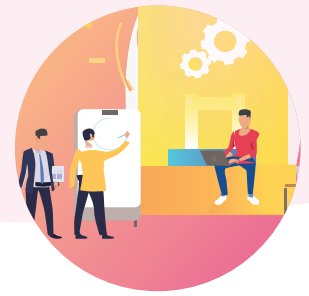## Introduction to AI and Machine learning

In this module, the students will start with discussing what is AI and then explore the applications, limitations, biasis, ethics and future of AI. They will gain understanding of the basic AI terms such as supervised learning, unsupervised learning, deep learning and neural networks.

SESSION	CONCEPT	SKILLS
01	Intelligence And Its Types	**Exploration, Analyzing** What is Intelligence and types of intelligence?
02	Evolution of AI And The Big Ideas of AI	**Exploration, Analyzing** Explore the big Ideas of AI- Perception, Learning, Reasoning.
03	Creating A Simple Chatbot-I	**Problem-Solving, Logic** Creating a rule-based AI Chatbot.
04	Creating A Simple Chatbot-II	**Problem-Solving, Logic** Creating a rule-based AI Chatbot.
05	Understanding Machine Learning-I	**Exploration, Abstraction** Explore the terms- AI, ML, Neural networks, Deep Learning, Machine learning and examples.
06	Understanding Machine Learning-II	**Exploration, Abstraction** Understand supervised, unsupervised and reinforced learning using examples.
07	Tic-Tac-Toe Project-I	**Exploration, Logic** Building a machine learning model that plays the tic-tac-toe game .
08	Tic-Tac-Toe Project-II	**Exploration, Logic** Building a machine learning model that plays the tic-tac-toe game .

09	Deep Learning With Neural Networks	**Exploration** Understand neural networks through examples.
10	MNIST Digit Recognition Project-I	**Creativity, Analyzing** Making a neural network model for recognition of handwritten digits.
11	MNIST Digit Recognition Project-II	**Creativity, Analyzing** Making a neural network model for recognition of handwritten digits.
12	Virtual Assistant Project-I	**Creativity, Analyzing** Making a virtual assistant using inbuilt Python AI library functions.
13	Virtual Assistant Project-II	**Creativity, Analyzing** Making a virtual assistant using inbuilt Python AI library functions.
14	Virtual Assistant Project-III	**Creativity, Analyzing** Making a virtual assistant using inbuilt Python AI library functions.

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