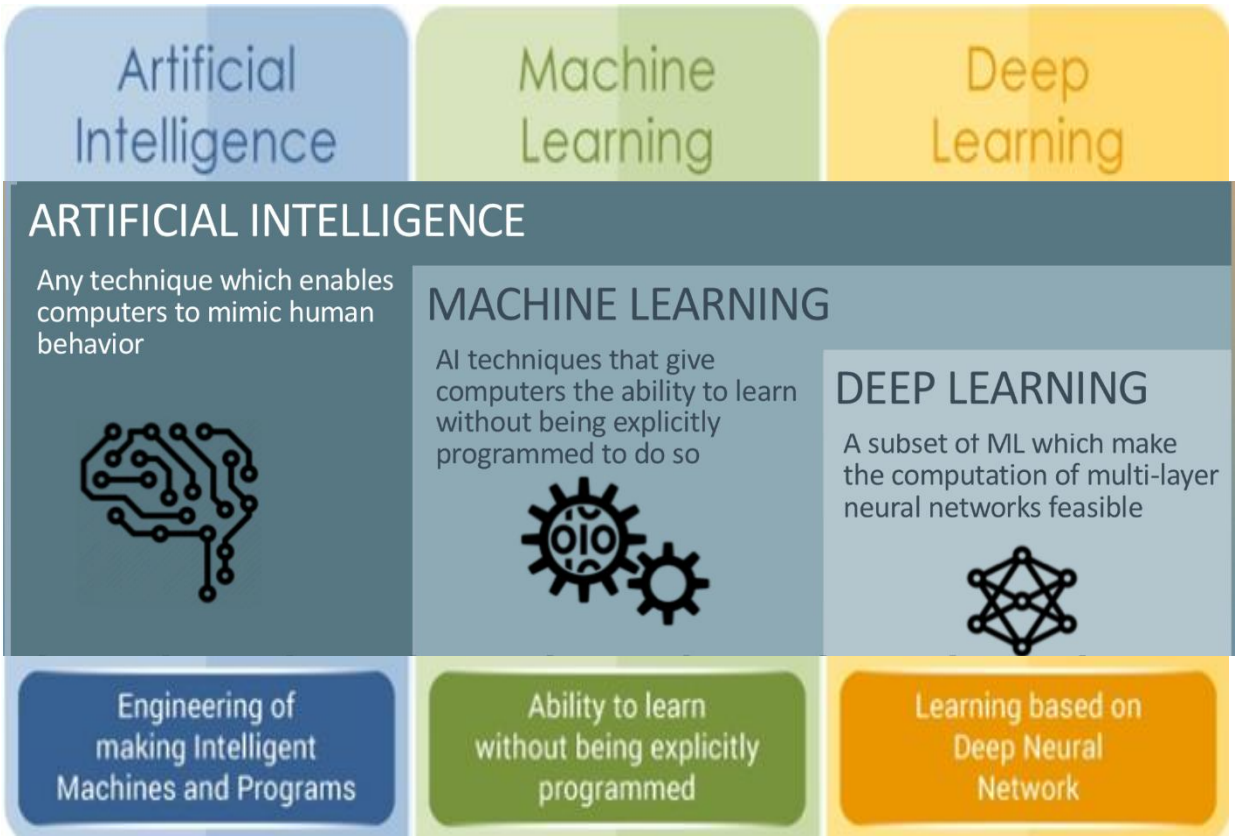
On Campus Industrial Internship for UG & PG Students

Four weeks Internship on Machine Learning and Artificial Intelligence

For EIE, ECE, EEE, CS, IS Students



Target: **BE/B-Tech with stream in:**

- Electronics & Communication Engineering
- Electronics & Instrumentation Engineering
- Electrical & Electronics Engineering
- Computer Science Engineering
- Information Science Engineering

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Prerequisite : Basic programming knowledge

MODULES	TOPICS	DURATION
Module 1	Introduction to Artificial Intelligence and Machine Learning.Learn the important language for Data Science Hands-on	1 week
Module 2	Data Visualisation and Deep Learning Hands-on	1 week
Module 3	Intermediate Machine Learning Hands-on	1 week
Module 4	Hands-on challenges to perfect data manipulation skills Hands-on	1week

Artificial Intelligence and Machine Learning

Course contents:

Machine Learning Introduction (Theory)

- What is Machine Learning and Artificial intelligence ?
- What is the significance of Machine Learning ?
- Check real life examples of machine learning application
- Learn what is supervised and unsupervised learning

Python (Theory and Hands on)

- Learn python : The most important language for data science

Machine Learning (Theory and Hands on)

- Data Preprocessing, learn various python libraries and how to use them.
- Learn to create good data sets, choosing best features and represent those features optimally

Intermediate Machine Learning (Hands on)

- Build Machine learning models with real world examples
- Build various types of Regression models
- Various types of Classification models
- Various types of Clustering models
- Natural language processing
- Reinforcement learning models - Upper confidence bound

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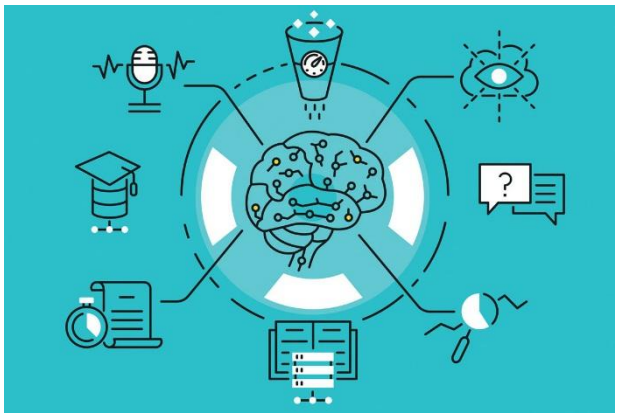
- Deep learning models - Neural Networks
- Learn how to select models
- Visualize models with cool graphs
- Build equations for models from scratch
- Challenge yourself with real-world focused machine learning challenges.
- Load, Examine and Plot large data sets
- Supervised Learning, Deep Learning and Unsupervised learning.
- Improve quality of Machine learning model
- Software engineer fundamentals in accordance with Machine Learning
- Real world machine learning case study and examples
- Hands-on challenges to solve real world problems with Machine Learning.

What you'll get/learn



- Learn how to apply Artificial Intelligence (AI) and Machine Learning(ML) to social, humanitarian or environmental challenges.
- Build mindset that helps you identify appropriate situations for machine learning
- Learn to create good data sets, choosing best features and represent those features optimally
- Challenge yourself with real-world focused machine learning challenges.