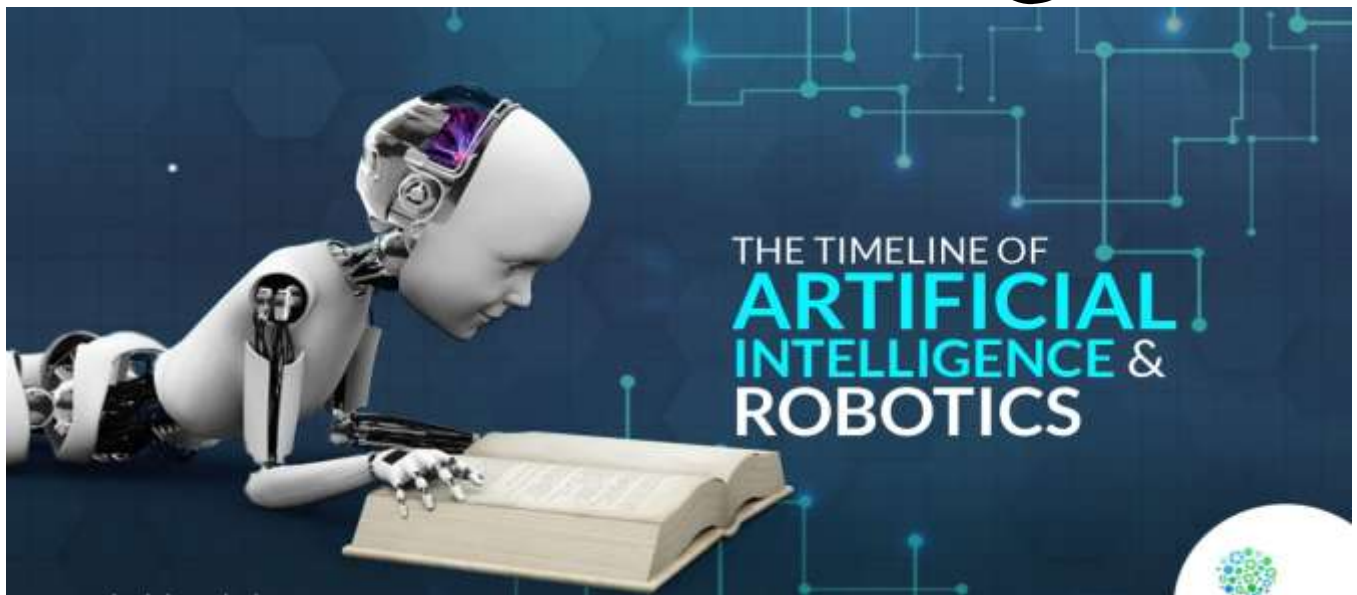


# Free Artificial Intelligence



# Machine Learning with Python

**Duration : 4 Weekends**

**Timings : 9.00 to 2.00 pm**

**Faculty : Satish - Machine Learning, NLP**  
**Mahendra - Machine Learning**  
**Phani - Python**

**Machine Learning with Python**

- ✓ **Introduction of Artificial Intelligence**
- ✓ **Requirements for AI**
- ✓ **Use Cases for AI**
- ✓ **Role of Machine Learning in the AI**
- ✓ **Types of Machine Learning Algorithms:**
  - **Supervised Learning**
  - **Unsupervised Learning**
  - **Reinforcement Learning**

**List of Machine Learning Algorithms Implementation by using Python code**

- ✓ **Linear Regression Algorithm**
- ✓ **Classification Algorithm**
- ✓ **Decision Tree Algorithm**
- ✓ **SVM Algorithm**
- ✓ **Naive Bayes Algorithm**
- ✓ **kNN Algorithm**
- ✓ **K-Means Algorithm**
- ✓ **Random Forest Algorithm**

**NLP (Natural Language Processing)****Google Dialogflow (API.AI) Chatbot****Introduction**

- ✓ **What is Bots & AI?**
- ✓ **What is API.AI/ Dialogflow?**

**Basics of API.AI**

- ✓ **Understood & Create Agent**
- ✓ **Understood & Create Intent**
- ✓ **Using Entities**
- ✓ **Using Action & Parameters**

### Using Fulfillment for response

- ✓ Understanding & Setting up Fulfillment
- ✓ Webhook: NodeJS

### Publish/Integrate your Bots

- ✓ Integrate: Website
- ✓ Integrate: Skype
- ✓ Integrate: Slack

## Python

1. Introduction to Python
2. Basic Python Syntax
3. String Handling
4. Operators
5. Conditional statements
6. Looping Statements
7. Control Statements
8. Collections
9. Functions
10. Modules
11. Packages
12. Machine Learning Python libraries
  - ✓ NumPy
  - ✓ SciPy
  - ✓ Pandas etc.