

# Course Title:

## Artificial Intelligence & Machine Learning

# Artificial Intelligence

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### AI: The New Electricity

AI now is, What electricity was a hundred years ago, AI Shaping Every Industry.

### Session 1: Insights on AI

1. Understand Artificial Intelligence by simulating a self driving car
2. Hands on data generation for supervised learning

### Session 2: AI and Automation

1. Problem Solving With Machine Learning
2. Classification And Regression
3. Exploring Healthcare and finance datasets
4. Building Your own ML models
5. Deploy ML models to production
6. Project 1

### Session 3: AI in Healthcare

1. Introduction to Deep Learning
2. Computer Vision with DL
3. Building Models beyond Human Capabilities
4. Tensorflow Pneumonia Classifier
5. Project 2

# Machine Learning

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## Session - 01 Introduction

1. AI, Deep Learning vs Machine Learning
2. Introduction to Python, kaggle
3. Loading Datasets, Reading Files in python
4. ML project Workflow
5. Deploy Machine learning Model Flask intro
6. Python for web Application
7. Flask Applications
8. Project 3 : Machine learning flask app

## Session - 02 Studying Different Learning models

1. Types Of Learning
2. Linear Regression House Price Dataset
3. Introduction to Classification
4. Comparing Classifiers Using Insurance Claim Dataset
5. Basic Regression and classification models
6. Project 4

## Session -03 An Introduction To Deep Learning

1. Building Your First Neural Network
2. Steps For Building DL Models
3. Introduction To Conv-Nets
4. Using Pre trained Models to Make predictions
5. classification beyond human capabilities
6. Project 5: Heart Disease Prediction System using Flask

