



Agenda



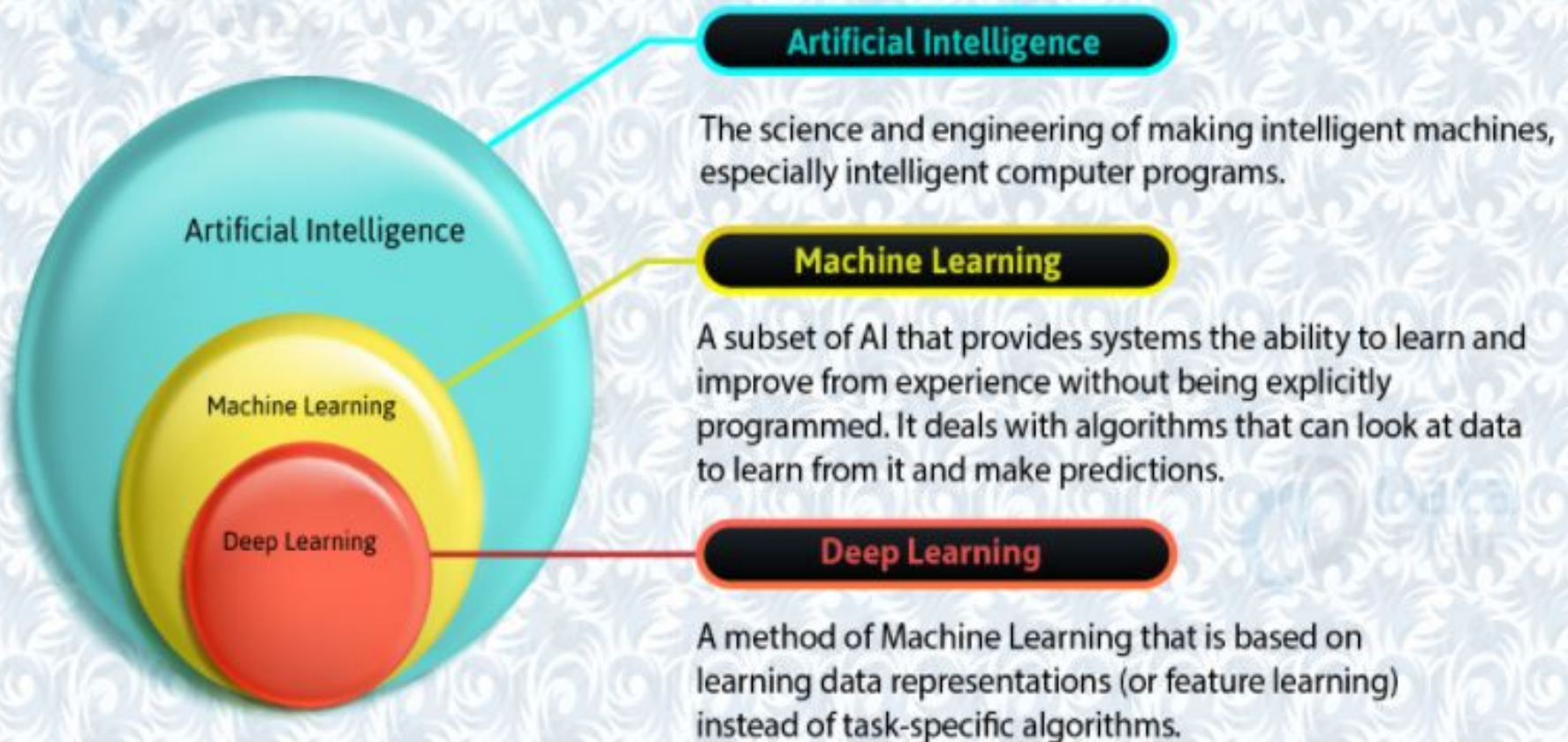
- A recap- Machine Learning
 - ML case studies
 - Python project ideas
 - ML project ideas
- Deep Learning
 - Diff between ML/AI/DL
 - Artificial Neural Network (ANN)
 - Deep Learning working details
 - Implementing DL
- Resources- Deep Learning

Recap - Machine Learning



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What is Machine Learning?



Types of Machine Learning

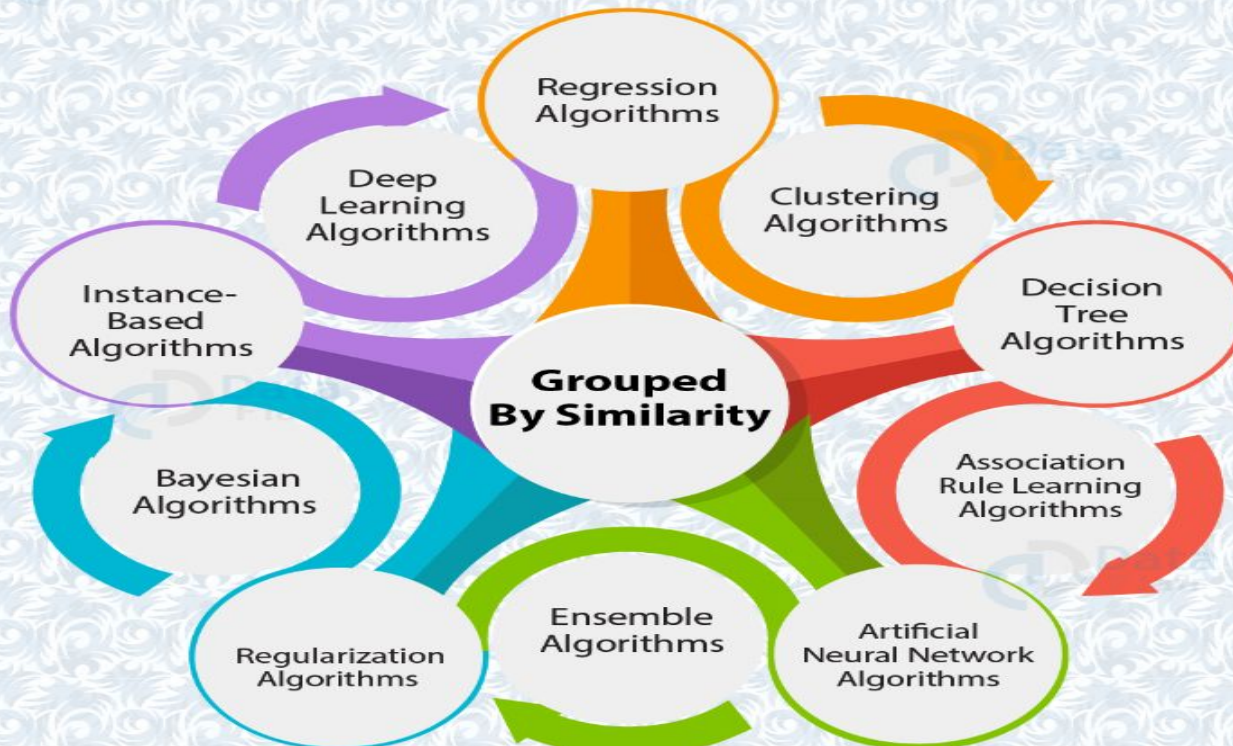


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Types of Machine Learning



Grouped By Similarity



Applications of Machine Learning



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Grouped by Learning Style



Advantages and Disadvantages



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Advantages

- Easily identifies trends and patterns

- No human intervention needed

- Continuous Improvement

- Handling multi-dimensional and multi-variety data

- Wide Applications

Disadvantages

- Data Acquisition

- Time and Resources

- Interpretation of Results

- High error-susceptibility

Companies Using Python Machine Learning



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Machine Learning case studies



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Here are a few real-world case studies on machine learning applications to solve real problems.



Machine Learning Case Studies



To improve email channel & garner data-driven analytics.



For analysis of customer data to determine behaviour.



For transforming & enhancing customer experience.



To create personalized marketing campaigns.



To enhance their user's experience & ease the staff's work.

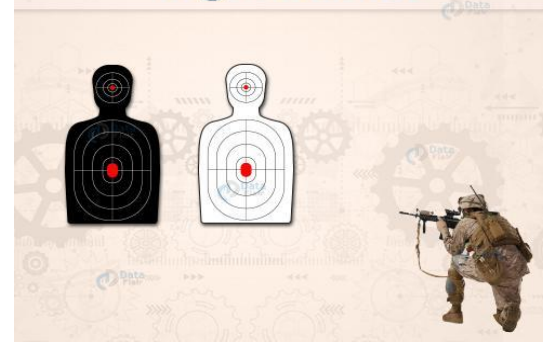
Python Project ideas



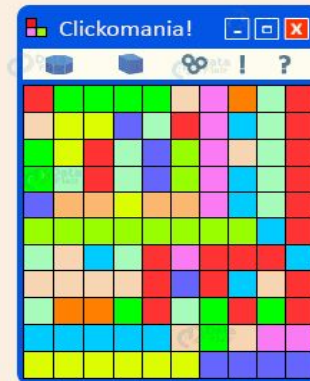
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1. Hangman Project in Python
2. Rock Paper Scissor Python Game
3. Dice Rolling Simulator in Python
4. Email Slicer
5. Magic 8 Ball Game
6. Target Practice Game
7. Alarm Clock with GUI
8. Binary Search Algorithm
9. Desktop Notifier App in Python
10. Clickomania Game

Python Project - Target Practice



Python Project - Clickomania



**Develop an
Alarm Clock
in Python**



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MACHINE LEARNING PROJECTS FOR BEGINNERS



Machine Learning Projects ideas



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Learning through projects is the best investment that you are going to make. These project ideas enable you to grow and enhance your machine learning skills rapidly.

1. Iris Flowers Classification Project

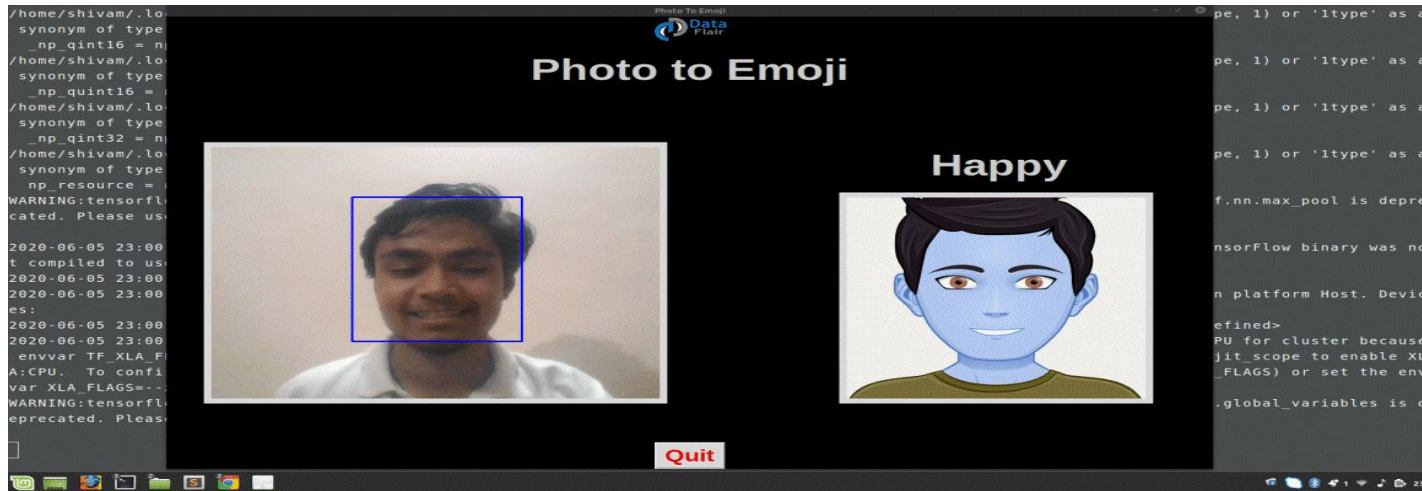
Machine Learning Project - Iris Flowers Classification

Iris Flower Dataset



Machine Learning Project ideas

2. Emojify – Create your own emoji with Python



3. Loan Prediction using Machine Learning

Project idea – The idea behind this ML project is to build a model that will classify how much loan the user can take. It is based on the user's marital status, education, number of dependents, and employments. We can build a linear model for this project.

Machine Learning Project ideas

3. Housing Prices Prediction Project



4. MNIST Digit Classification Machine Learning Project

Project idea – The MNIST digit classification python project enables machines to recognize handwritten digits. This project could be very useful for computer vision. Here we will use MNIST datasets to train the model using Convolutional Neural Networks.

Machine Learning Project ideas



5. Stock Price Prediction using Machine Learning
6. Titanic Survival Project
7. Wine Quality Test Project
8. Fake News Detection Project
9. Music Genre Classification Machine Learning Project
10. Bitcoin Price Predictor Project



- Summarise different ML algorithms groups?
- Name key applications of ML?
- Advantages & Disadvantages of ML?
- Implement at least 3 project ideas in Python.
- Implement 3 Machine Learning Projects ideas.