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Artificial Intelligence
Machine Learning
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DESCRIPTION

Combo 1

6 Months Validity for each Course - 3 Certificate

 **Artificial Intelligence**

 Machine Learning

 Data Analytics

What You Will Get?

- 📌 Recorded videos
 - 📌 Online support through forums
 - 📌 What we are teaching is a year of experience in the Field, You could reduce your research time and learn in 30 days.
 - 📌 All Video access for 6Months - Validity
 - 📌 3 Certificate
 - 📌 Download all source code
 - 📌 PPTs
 - 📌 Internship e Certificate
 - 📌 Assignments
-

Detailed Agenda of 3 Courses below:

Machine Learning

- ✓ Day-1: Overview A.I | Machine Learning
- ✓ Day-2: Introduction to Python | How to write code in Google Colab, Jupyter Notebook,

Pycharm & IDLE

SUPERVISED LEARNING - CLASSIFICATION & REGRESSION

✓ Day-3: Advertisement Sale prediction from an existing customer using

LOGISTIC REGRESSION

✓ Day-4: Salary Estimation using K-NEAREST NEIGHBOR

✓ Day-5: Character Recognition using SUPPORT VECTOR MACHINE

✓ Day-6: Titanic Survival Prediction using NAIVE BAYES

✓ Day-7: Leaf Detection using DECISION TREE

✓ Day-8: Handwritten digit recognition using RANDOM FOREST

✓ Day-9: Evaluating Classification model Performance using CONFUSION

MATRIX, CAP CURVE ANALYSIS & ACCURACY PARADOX

✓ Day-10: Classification Model Selection for Breast Cancer classification

✓ Day-11: House Price Prediction using LINEAR REGRESSION Single Variable

✓ Day-12: Exam Mark Prediction using LINEAR REGRESSION Multiple Variable

✓ Day-13: Predicting the Previous salary of the New Employee using

POLYNOMIAL REGRESSION

✓ Day-14: Stock price prediction using SUPPORT VECTOR REGRESSION

✓ Day-15: Height Prediction from the Age using DECISION TREE REGRESSION

✓ Day-16: Car price prediction using RANDOM FOREST

✓ Day-17: Evaluating Regression model performance using R-SQUARED

INTUITION & ADJUSTED R-SQUARED INTUITION

✓ Day-18: Regression Model Selection for Engine Energy prediction.

UNSUPERVISED LEARNING - CLUSTERING

✓ Day-19: Identifying the Pattern of the Customer spent using K-MEANS

CLUSTERING

✓ Day-20: Customer Spending analysis using HIERARCHICAL CLUSTERING

✓ Day-21: Leaf types data visualization using PRINCIPLE COMPONENT

ANALYSIS

✓ Day-22: Finding Similar Movie based on ranking using SINGULAR VALUE

DECOMPOSITION

UNSUPERVISED LEARNING - ASSOCIATION

✓ Day-23: Market Basket Analysis using APIRIORI

✓ Day-24: Market Basket Optimization/Analysis using ECLAT

REINFORCEMENT LEARNING

✓ Day-25: Web Ads. Click through Rate optimization using UPPER BOUND

CONFIDENCE

Natural Language Processing

✓ Day-26: Sentimental Analysis using Natural Language Processing

Day-27: Breast cancer Tumor prediction using XGBOOST

DEEP LEARNING

✓ Day-28: Bank Customer classification using ANN

✓ Day-29: Pima-Indians Diabetes Classification using CONVOLUTIONAL

NEURAL NETWORK

✓ Day-30: A.I Snake Game using REINFORCEMENT LEARNING

Data Analytics

✓ Day-1: Introduction to Artificial Intelligence, Data Analytics & Road Map to become a Data Scientist

EXCEL

✓ Day-2: Data Preparation - Power Query & Tables

✓ Day-3: Data analytics- Formula & Pivot Table

✓ Day-4: Story Telling - Charts & Dashboard

✓ Day-5: Automation - VBA Macros & Power Query

STATISTICS & PROBABILITY

✓ Day-6: Descriptive Statistics - Mean, Mode, Median, Quartile, Range, InterQuartile Range, Standard Deviation

✓ Day-7: Probability - Permutations, Combinations

✓ Day-8: Population and Sampling

✓ Day-9: Probability Distributions - Normal, Binomial and Poisson Distributions

✓ Day-10: Hypothesis Testing & ANOVA - One Sample and Two Samples - z Test, t-Test, F Test and Chi-Square Test

BI tools - Tableau

✓ Day-11: Connect Tableau to a Variety of Datasets

✓ Day-12: Analyze, Blend, Join, and Calculate Data

✓ Day-13: Visualize Data in the Form of Various Charts, Plots, and Maps

BI tools - Power BI

✓ Day-14: Connect Tableau to a Variety of Datasets

✓ Day-15: Visualize Data in the Form of Various Charts, Plots, and Maps and Calculate Data

Python

✓ Day-16: Introduction to Python & Installing Python and its Libraries

✓ Day-17: Basic Python Programming for Data Analytics

Numpy & Pandas

✓ Day-18: Python Numpy functions

✓ Day-19: Pandas for Data analytics in Python

Data Visualization

✓ Day-20: Matplotlib for data visualization

✓ Day-21: Seaborn for data visualization

Kaggle Exploratory

✓ Day-22: Kaggle Dataset and Notebooks

Database - SQL

✓ Day-23: SQL basics for Data analytics - Part-1

✓ Day-24: SQL basics for Data analytics - Part-2

Database - MongoDB

✓ Day-25: MongoDB basics for Data analytics

Machine Learning

✓ Day-26: Introduction to Machine Learning & its libraries

✓ Day-27: Evaluating and Deploying Machine Learning Classification algorithm for classification of State of Electric power system

Deep Learning

- ✓ Day-28: Introduction to Deep Learning & its libraries
- ✓ Day-29: Covid-19 Detection using X-Ray Images with CNN

Natural Language Processing

- ✓ Day-30: Tag Identification system using NLTK

Artificial Intelligence

DAY – 1 Overview of this course | Introduction to AI | How to create basic AI application
(Chat bot using DialogFlow)

DAY – 2 How to install Python & Libraries | Basics of python Programming for AI.

COMPUTER VISION

DAY – 3 Introduction to Computer Vision| How to install computer vision libraries

DAY – 4 Moving Object Detection and tracking using OpenCV

DAY – 5 Face Detection and Tracking using OpenCV

DAY – 6 Object Tracking based on color using OpenCV

DAY – 7 Face Recognition using OpenCV

DAY – 8 Face Emotion recognition using 68-Landmark Predictor OpenCV

DEEP LEARNING

DAY – 9 Introduction to Deep learning | How to install DL libraries

DAY – 10 Designing your First Neural Network

DAY – 11 Object recognition from Pre-trained model

DAY – 12 Image classification using Convolutional Neural Network

DAY – 13 Hand gesture recognition using Deep Learning
DAY – 14 Leaf disease detection using Deep Learning
DAY – 15 Character recognition using Convolutional Neural Network
DAY – 16 Label reading using Optical Character recognition
DAY – 17 Smart Attendance system using Deep Learning
DAY – 18 Vehicle detection using Deep Learning
DAY – 19 License plate recognition using Deep Learning
DAY – 20 Drowsiness detection using Deep Learning
DAY – 21 Road sign recognition using Deep Learning

MACHINE LEARNING

DAY – 22 Introduction to Machine learning| How to install ML libraries
DAY – 23 Evaluating and Deploying the various ML model
DAY – 24 Fake news detection using ML
DAY – 25 AI snake game design using ML

NATURAL LANGUAGE PROCESSING

DAY – 26 Introduction to NLP & it's Terminology | How to install NLP Libraries NLTK
DAY – 27 Title Formation from the paragraph design using NLP
DAY – 28 Speech emotion analysis using NLP

DEPLOYING AI IN HARDWARE

DAY – 29 Cloud-based AI, Object recognition using Amazon Web Service (AWS) & Imagga

DAY – 30 Deploying AI application in Raspberry Pi with Neural Compute stick & Nvidia Jetson Nano

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