



Eligibility: +2 Graduates

DATA SCIENCE AND ML

L3 & L4 DIPLOMA COURSE

Refine your data science mastery from algorithms to insights.

There are no absolutes in the world of data. Join our cutting-edge diploma course and innovate from any dataset, anywhere.

 Internship Guaranteed

 3-4 Months Course

 2 Hours/Day*

 Recording of Class

 Certification Course

Enroll Now 



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 4-5 Months Course

 2 Hours/Day*

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www.vrittechnologies.com

Shankhamul, Kathmandu

9861601174, 9867224514

About Company:

Skill Shikshya, an innovative learning institute, is dedicated to offering skills that truly matter in today's fast-paced world. With Skill Shikshya, individuals can access an extensive selection of online courses, allowing them to acquire and enhance the skills necessary for personal growth, career advancement, and staying competitive in the ever-evolving job market.

Through our vision, mission, and core values, Skill Shikshya aims to empower individuals with the knowledge and skills that truly matter in today's rapidly changing technological and financial landscape, enabling them to succeed and thrive in their professional endeavors.

In Brief

- No Previous Knowledge required; however, it will benefit
- You can take classes remotely / Onsite.
- Guaranteed Internship Support
- Be Certified UI UX Designer
- Everyday recording will be provided
- Duration: 3-4 Months | L3 and L4 Level
- Date: Starting Soon

Now to bridge the gap between industry and IT students Vrit Technologies in association with SkillShikshya is launching, Data Science and Machine Learning.

Note:

- There are only 15 seats available for physical classes, so register quickly.
- Your seat will only be recorded as reserved once payment has been received.
- You can also take classes remotely / Onsite too.

Complete Data Science and Machine Learning Diploma Course with Python covers complete Introduction to Programming Languages, Python, Basics of Data Science, Machine Learning, Deep Learning, Natural Language Processing, Web Interfaces, and More.

Syllabus is given Below:

Syllabus

Data Science and Machine Learning with python Diploma Course

Available Level
L3 & L4



Register Today



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Programming Fundamentals {Python Basics}

- Core Data Structures of Python
- Number
- String
- List
- Tuples
- Dictionary
- Set
- Advance Operation on Core Data-Structures
- Decision and Branching
- If, Else if, Else, Break, Continue
- Looping
- Functions
- Lambda Functions
- Map, Reduce, Filter [**]
- Function Recursion
- Decorators [**]

Python Core

- List and Dictionary Comprehension
- Exceptions and Exception Handling
- File Handling
- Object Oriented Programming (OOP)
- Introduction to Classes
- Inheritance, Encapsulation, Polymorphism, Abstraction
- Method Overloading
- Building Custom Packages and Modules

Basics to Data Science

- Introduction to Data Science
- Introduction to NumPy and Matplotlib
- Matrix Operations with NumPy
- Random Variable and Probability Distributions
- Probability
- Properties of Probability Distributions
- Mean, Median, Mode
- Variance, Skewness, Kurtosis
- Multivariate Normal Distribution
- Co-Variance, Correlation

Syllabus

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- Introduction to Scikit-Learn
- Data Pre-Processing Techniques using Scikit-Learn
- Dimensionality Reduction as Data Pre-Processing
- Principal Component Analysis (PCA)
- Linear Discriminant Analysis (LDA)

Machine learning - I

- Introduction to Reinforcement Learning
- Q-Learning with Python
- Introduction to Clustering
- K-Means Clustering
- Agglomerative Clustering
- Introduction to Supervised Learning
- Naive Bayes Classification

Machine learning - II

- Linear and Polynomial Regression
- K-Nearest Neighbors
- Decision Tree
- Balancing Bias vs Variance of ML Model
- Ensemble Learning
- Random Forest and Adaptive Boost
- Identifying Important Features of Data
- Time Series Analysis

Deep learning - I

- Introduction to Logistic Regression
- Computation Graph and Gradient Descent
- Introduction to Artificial Neuron (Perceptron)
- Multi-Layer Perceptron
- Introduction to Artificial Neural Networks
- Designing Artificial Neural Networks with Keras
- Gradient Decent Variants
- Classification and Regression using Neural Networks

Syllabus

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Deep learning – II

- Introduction to Convolutional Neural Network (CNN)
- Object Classification with CNN
- Standard CNN Architectures
- Introduction to Object Detection
- The YOLO Algorithm
- Transfer Learning
- Deep Reinforcement Learning

Natural language processing + Computer Vision + TensorFlow

- Introduction to NLTK
- Text Pre-Processing
- POS Tagging and Named-Entity Recognition
- Latent Semantic Analysis
- Introduction to Recurrent Neural Network
- Word2Vec Algorithm for Text Vectorization
- Natural Language Processing with LSTM
- Giving Web Interface to ML
- Application using Flask/Django / Streamlit.

Assignment / Labs

- Each student will have a project to complete in order to demonstrate their understanding both during and after the course.
- L4 will focus on the practice and mastery of contents covered in the lectures; and introduce critical and fundamental problem-solving techniques to the students.

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Syllabus

**Data Science
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Learning with
python
Diploma Course**

**Available Level
L3 & L4**



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Thank you.

To register Scan QR Below.



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Ashok sir : 9868730959

Alisha ma'am: 9860630241

Register via form: [Click here](#)

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Glimpse of our L4 Experience

