Unogeeks

Data Science Training Course Content

Course Duration – 45-50 Hrs., 7-8 Weeks

Course Information

Batch Options	**About the Trainer**	**Contact Us**
Weekday Batch Mon – Fri – 1.5 Hr./Day	Industry Expert Trainer with 15+ Years Real Time Work Experience at Top US Based Product and Consulting Firms	**Mobile:** +91 73960 33555 **WhatsApp:** +91 73960 33555 **Mail:** Prasad@unogeeks.com **Website:** Unogeeks.com

Introduction To Data Science Training

Data Science

Data scientist creates programming code and combines it with statistical knowledge to create insights from data.

Become a **Data Scientist** by working on **real world case studies** and **projects** through **Online Data Science training course** offered by the **Unogeeks** (Rated as **Top Data Science Training Institute** in the market)

What you'll learn

- ➢ Python with Data Science
- ➢ Machine Learning Supervised Learning Models
- ➢ Machine Learning Unsupervised Learning Models
- ➢ Deep Learning – ANN, CNN, RNN, Transfer Learning
- ➢ Machine Learning Models deployment using Flask
- ➢ Natural Language Processing
- ➢ Data Science at Scale with TensorFlow
- ➢ Resume & Interview preparation and Job Assistance

Course Content

Module 1: Introduction to Data Science & ML

- Introduction to Data Science
- What does Data Science involve?
- Data Science history
- Life cycle of Data Science
- Overview of Data Science Tools
- Machine Learning usage in Data Science

Module 2: Python Basics for Data Science & ML

- Overview of Python
- Different Applications where Python is Used
- Python Scripts execution
- Basics of Python Programming
- Flow Control in Python
- Values, Types, Variables
- Operands and Expressions
- Conditional Statements
- **Loops in Python**

Module 3: Linear Algebra and Advanced Statistics

- Descriptive Statistics
- Probability
- Inferential Statistics

Module 4: Data Analysis in Data Science

- ➤ Data Handling with Numpy
- ➤ Data Manipulation Using Pandas
- ➤ Data Pre-processing
- ➤ Feature Engineering
- ➤ Data Visualization using Matplotlib , Seaborn

Module 5: Introduction to Machine Learning Models

- ➤ Introduction to Machine Learning
- ➤ Types of ML models
- ➤ Supervised & Unsupervised Learning
- ➤ Performance Metrics

Module 6: Machine Learning Supervised Models – Part 1

- ➤ Introduction to Machine Learning Supervised Models
- ➤ Regression Models
- ➤ Master Linear Regression Model
- ➤ Understand Multi Linear Regression Model
- ➤ Polynomial Regression Model

Module 7: Machine Learning Supervised Models – Part 2

- ➤ Classification Models and use cases?
- ➤ Tree Based Models
- ➤ Ensemble Methods
- ➤ Bagging and Boosting
- ➤ Over fitting and Under fitting
- ➤ Evaluation Metrics

Module 8: Machine Learning Supervised Models – Part 3

- ➢ Introduction to Naive Bayes?
- ➢ What is Naive Bayes?
- ➢ How Naive Bayes works?
- ➢ Implementing Naive Bayes Classifier
- ➢ What is a Support Vector Machine?
- ➢ Illustrate how Support Vector Machine works
- ➢ Hyperparameter Optimization
- ➢ Grid Search vs. Random Search
- ➢ Implementation of Support Vector Machine for Classification

Module 9: Machine Learning Unsupervised Learning

- ➢ What is Clustering & its Use Cases?
- ➢ What is K-means Clustering?
- ➢ How does the K-means algorithm work?
- ➢ How to do optimal clustering
- ➢ What is DBSCAN Clustering?
- ➢ What is Hierarchical Clustering?
- ➢ How does Hierarchical Clustering work?

Module 10: Deep Learning Using TensorFlow

- ➢ Artificial Intelligence Basics
- ➢ Introduction to Neural Networks
- ➢ Activation Functions
- ➢ Introduction to Tensor Flow

Module 11: Deep Learning – Part 2

➢ ANN

➢ Sequential Neural Networks(RNNs, LSTMs, GRUs)

➢ Convolution Neural Networks

➢ Hyper Parameter Tuning in Neural Networks

➢ Transfer Learning

Module 12: Natural Language Processing

➢ Text Mining , Cleaning, and Pre-processing using Regex.

➢ Text Normalization Techniques

➢ Entity Recognition, Next Word Prediction

➢ Static Word Embedding Techniques

➢ Dynamic Word Embedding Techniques

➢ Topic Modelling

➢ Text classification, NLTK, sentiment analysis, etc.

➢ Transformer Based Models

➢ BERT,BART,ALBERT,DISTILBERT

Module 13: Deploying Machine Learning Models

➢ Machine Learning Models deployment overview

➢ What is Flask API

➢ Deploying Machine Learning Models with Flask API

➢ Jupyter Notebook

Module 14: Data Science Capstone Project

Module 15: Business Case Studies

> ➤ Customer Review Classification Using LSTMs, GRUs
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> ➤ Customer Churn Prediction (Telecom)
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> ➤ Image Classification Using Deep Learning Models
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> ➤ Multi Class Ticket Classification Used Transformer Based Models.
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> ➤ Loan Defaulter Prediction using Ensembling Techniques

Module 16: Resume Preparation, Interview and Job Assistance

> ➤ Prepare Crisp Resume as Data Scientist
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> ➤ Discuss common interview questions in Data Science
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> ➤ Explain students what jobs they should target and how