PROFESSIONAL COURSE

DATA SCIENCE

(12 MONTHS)

12 Months | Eligibility: 12th Pass | Practical Lab Training

12 Months	12th Pass	2 Phases	Certificate
DURATION	ELIGIBILITY	STRUCTURE	CERTIFICATION

About the Course

Data Science is a 12-month job-oriented course designed for 12th pass students who want to build a career in data analysis and machine learning. The course covers Excel, Python, statistics, SQL, Power BI, machine learning, deep learning basics and a capstone project work, so students become job-ready with theoretical knowledge and hands-on practical skills.

What You Will Learn

Python
Programming for data

SQL
Databases and queries

Statistics
Understanding data

Power BI
Reports and dashboards

Machine Learning
Prediction and classification

Capstone Project
Build your portfolio

Why Soft World Education

- Industry-oriented syllabus with daily lab sessions
- Experienced faculty with personal attention
- Interview preparation and career guidance
- Certificate from the institute
- Small batches for better learning
- Focus on practical, job-ready skills

PHASE I

Month 1 - 6

01 Introduction to Data Science & Excel

- What is data science and where it is used
- Data analyst, data scientist and ML engineer roles
- MS Excel: formulas and pivot tables
- Charts and dashboards in Excel

02 Python Programming

- Variables, data types and operators
- Decisions, loops and functions
- Lists, tuples, sets and dictionaries
- File handling and exception handling
- Basics of OOP and modules

03 Statistics & Probability

- Mean, median, mode and standard deviation
- Probability and distributions
- Correlation and regression basics
- Sampling and hypothesis testing (basic)

04 SQL & Databases (MySQL)

- Database concepts, tables and relationships
- SELECT, INSERT, UPDATE, DELETE
- Joins, subqueries and grouping
- Views and indexes for faster queries

05 Data Handling (NumPy & Pandas)

- NumPy arrays and operations
- Pandas Series and DataFrames
- Reading CSV, Excel and SQL data
- Merging, grouping and reshaping data

06 Data Visualization & Power BI

- Charts with Matplotlib and Seaborn
- Power BI: importing and modelling data
- Reports, dashboards and DAX basics
- Telling a story with data

After Phase I

Students can analyse data with Excel, Python, SQL and Pandas, and build reports and dashboards in Power BI.

PHASE II

Month 7 - 12

07 Data Cleaning & Exploratory Analysis

- Handling missing values, duplicates and outliers
- Feature engineering and encoding
- Exploratory data analysis step by step
- Practice on real-life datasets

08 Machine Learning I (Supervised)

- Train / test split and model evaluation
- Linear and logistic regression
- Decision tree and KNN
- Using Scikit-learn

09 Machine Learning II (Advanced)

- Random forest and boosting (introduction)
- Clustering: K-Means
- Cross-validation and tuning models
- Handling overfitting and imbalanced data

10 Deep Learning & NLP (Introduction)

- Neural networks with TensorFlow and Keras
- Image classification basics
- Text processing and sentiment analysis basics
- Introduction to generative AI tools

11 Deployment & Developer Tools

- Git and GitHub for projects
- Saving models and making predictions
- Building a simple web app with Streamlit
- Introduction to cloud and big data concepts

12 Capstone Project, Portfolio & Viva

- Selecting a real-world data problem
- End-to-end data project
- Portfolio, resume and interview preparation
- Project presentation and viva-voce

After Phase II

Students can clean data, build and evaluate machine learning models, deploy a simple app, and complete a capstone project.

Career Opportunities After This Course

01 Data Analyst Trainee (entry level)	**02** Junior Data Scientist (entry level)
03 MIS / Reporting Executive	**04** Power BI Report Developer (Basic)
05 Freelancing (data analysis work)	**06** Higher courses: PGDCA / AI & ML

Software & Skills Covered

MS Excel	**Python**	**Jupyter**	**SQL / MySQL**
NumPy	**Pandas**	**Matplotlib**	**Power BI**
Scikit-learn	**TensorFlow (Intro)**	**Streamlit**	**Git & GitHub**

How to Join

1
Enquire
Call or visit the institute

2
Register
Submit documents and fees

3
Start Classes
Begin your learning journey

ADMISSIONS OPEN

Call / WhatsApp: **9826343444**
Website: softworld.in
Visit us: Open in Google Maps

Syllabus is subject to change as per industry requirements and institute policy.