

## About CRISP

CRISP is established under the Indo-German Technical Cooperation Agreement as an autonomous organization of the Dept. of Technical Education, Skill Development & Employment, Govt. of M.P.

CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of Academic & Training Institutions, Students & Jobseekers. CRISP is equipped with the state-of-the-art labs & technology, latest software, qualified, trained and experienced trainers in the relevant fields.

### Other training programmes in CS/IT :

#### AI & Data Science:

- AI & ML
- Advance Data Analytics

#### Office Management With AI:

- MS Office/Open Office
- Advanced Exce
- ITally Prime

#### Programming Languages:

- C & C ++
- Java(J2SE)
- CISCO Programming Essentials in Python

#### Networking & Cyber Security:

- CISCO IT Essentials (PCRM & Networking)
- CISCO Networking Essentials
- CISCO CCNA
- CISCO Cyber Security Essentials

#### Database Management:

- ORACLE (OCA)

#### Web Designings:

- Web Development with Python & Django



## Patron Clients of CRISP



#### Contact :

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## Centre for Research and Industrial Staff Performance

(Established under Indo-German Technical Co-operation)

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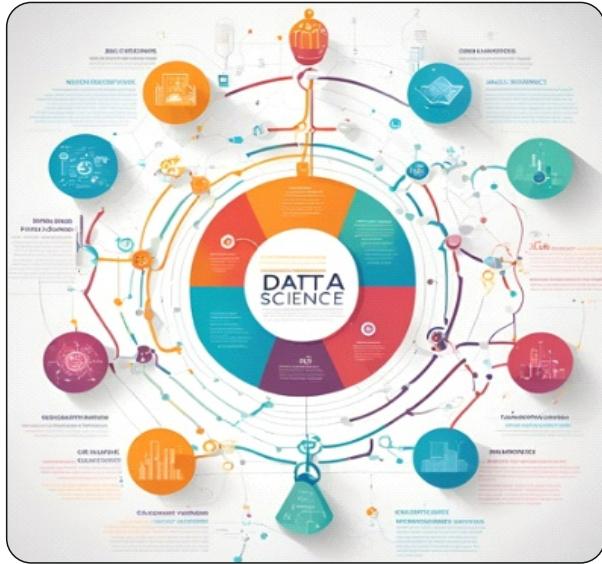
[www.crispindia.com](http://www.crispindia.com)

## Advanced Data Science



...unleashing the full potential of men & machines

## Advanced Data Science



Career Opportunities

Skill Development

Hands-on Experience

Certification

Networking Opportunities

### Introduction of Course

The course covers essential topics such as data manipulation, statistical analysis, and machine learning, equipping you with the skills to extract meaningful insights from complex datasets. Through hands-on projects and real-world case studies, you'll gain practical experience in data visualization, data cleaning, and predictive modeling, preparing you to tackle challenges in various domains. Whether you're looking to start a career in data science or enhance your existing skills, this course provides a comprehensive foundation to help you succeed in this rapidly evolving field.

### Course Contents

#### Module 1: Basics of Data Science & Analytics

- Introduction to Data Science & Data Analytics
- Foundation of Data Science

#### Module 2: SQL for Data Science

#### Module 3: Basics of Python and OOPS

- Conditions and loops, Functions, List tuples dictionary, Object oriented programming system (OOPS)

#### Module 4: Probability and statistics

- Measurements of Central Tendency, Measurements of Dispersion, Quartiles, Bivariate Data and Covariance, Conditional Probability, Sampling, Distributions, Standard Error, Hypothesis Testing, ANOVA - Analysis of Variance

#### Module 5: Data Wrangling using Python

- Library: Numpy, Pandas, Scipy, etc.

#### Module 6: ML for Data Science

- Introduction to Sci-kit learn
- Regression, Classification, Cross validation, Regularization, Evaluation metrics

#### Module 7: Data Visualization

- PowerBI/Tableau

### Methodology

The programme consists of a mix of :

- Lectures and presentations
- Demonstrations
- Interactive discussions
- Hands-on practice

### Pre-requisite

- 12th/ITI/Diploma/Degree.
- Working knowledge of Computer

### Duration

**Full time :** 15 working days (7 hours/day)

**Part time:** 45 working days (2 hours/day)

### Course Fee

Corporate participant: Rs.50,000/-  
(Non Residential) + GST

Fee will be subsidized for Jobseekers/students

### Mode of Payment

Cash / UPI/ Online/ Debit/ Credit Card