

## 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:

- Advance Data Analytics

#### Office Management With AI:

- Accounting with Tally Prime
- MS Office/Open Office
- Advanced Excel

#### Programming Languages:

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

#### Networking & Cybersecurity:

- 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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**CRISP**  
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# Artificial Intelligence & Machine Learning



**...unleashing the full potential of men & machines**





Career Opportunities

Skill Development

Hands-on Experience

Certification

Networking Opportunities

### Introduction of Course

The course addresses the state-of-the-art machine learning techniques and how to apply them into related problems. Curriculum includes ML algorithms supervised as well as unsupervised, implementation and hyperparameter tuning of all the models. With the accuracy measuring matrices and ways how to choose the best model for the problem at hand.

As a software professional, you will cultivate industry-supported skills and credentials that you will be able to transfer to future employment opportunities, like Data Engineers, ML or AI Engineers, Industry personnel will be able to make proactive and knowledge-driven decisions. The course addresses the state-of-the-art machine learning techniques and how to apply them in business related problems.

### Course Contents

#### Module 1 -

Data Preprocessing and Data Wrangling using Python Numpy and Pandas

#### Module 2 -

Data Visualization and implementation of Stat using Matplotlib, seaborn and plotly

#### Module 3 -

Probability and statistics

#### Module 4 – Supervised Learning

#### Module 5 -

Unsupervised Learning

#### Module 6 -

Perceptron Training Algorithm & Back propagation

#### Module 7 -

CNN and RNN implementation

### Methodology

**The program consists of a mix of :**

- Lectures and presentations
- Demonstrations via case studies
- Interactive discussions
- Hands-on practice

### Pre-requisite

- 12<sup>th</sup>/ITI/Diploma/Degree.
- Working knowledge of Computers

### Duration

Full time : 10 working days (8 hrs./ day)

Part time : 45 working days, 2 hrs./ day

### Course Fee

Corporate participant: Rs.35,000/-

(Non Residential) + GST

Fee will be subsidized for Jobseekers/students

### Mode of Payment

Cash / UPI/ Online/ Debit/ Credit Card