

Skill Development Programme on Data Science Using Python

January 05th - 09th, 2026

(A Hybrid Mode)



No Charge for
Registration
Course and
Certification

In association with
iHub-Data, IIIT Hyderabad



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY

HYDERABAD

Organized by

CMR ENGINEERING COLLEGE

UGC AUTONOMOUS

www.cmrec.ac.in

CMR Engineering College

CMR Engineering College, widely recognized as CMREC, stands as a pioneering institution in UGC autonomous engineering education. Founded in 2010 by the visionary CH. Narasimha Reddy, who transitioned from agriculture to education, CMREC occupies a sprawling 10-acre campus. Its primary mission is to offer an exemplary platform for students in Engineering and Technology, fostering academic excellence, holistic development, and ethical growth.

CMREC provides undergraduate programs in various specialized fields, including Computer Science and Engineering with specializations in Artificial Intelligence & Machine Learning, Cyber Security, and



Data Science along with the stand alone programs in Artificial Intelligence & Data Science, Information Technology, Electronics and Communication Engineering, and Mechanical Engineering. Additionally, it offers postgraduate courses such as M.Tech in VLSI System Design and Computer Science Engineering.

Overview of the SDP

- A Skill Development Program (SDP) on “**Data Science Using Python**” typically aims to equip student members with knowledge and practical skills related to Data Science Domain.
- The participants will gain insights into, Data Handling & Preprocessing, Data Visualization, Statistics for Data Science, Feature Representation and Collaborative Filtering. The SDP explores on the key concepts, practical uses, ethical considerations and it embarks on a transformative journey through Python from basic principles to advanced mastery.

Objectives:

A Student Development Program (SDP) on **Data Science Using Python** typically aims to achieve several key objectives to equip educators and researchers with the knowledge and skills necessary to leverage this technology effectively. Here are some common objectives:

1. **Understanding basics of Python:** Provide a comprehensive overview of Python technologies, including their underlying principles, algorithms and their capabilities.
2. **Applications and Use Cases:** Explore various applications of **Data Science Using Python**. Highlight real-world examples and case studies to illustrate the technology's impact.
3. **Research Opportunities:** Identify and explore potential research opportunities and current trends in **Data Science Using Python**. Encourage participants to consider how they might contribute to the field through their own research.

Topics reckoned for Coverage:

- Introduction to Data Science & Python.
- Data Handling & Preprocessing
- Data Visualization
- Statistics for Data Science
- Feature Representation and Collaborative Filtering
- Unsupervised Learning Methods
- Supervised Learning Methods
- Decision Trees
- Linear Regression: Simple and multiple linear regressions
- Dimensionality Reduction Methods (PCA)
- Hands on sessions on Unsupervised and Supervised Methods
- Support Vector Machines and Neural Networks
- Meta Heuristic Approaches
- Ensemble Methods and Matrix Vectorization
- Machine Learning with Python
- Advanced Topics
- Tools & Deployment
- Case Studies & Projects

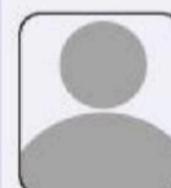
Resource Persons:



Dr. M. Laxmaiah
Professor and HOD
Years of Exp: 26



Dr. P. Radha Krishna
Professor
NIT, Warangal
Years of Exp: 33



Mr. S. Bharat Sriram
DS & AI Expert
Freelancer



Dr. S. Ganga
Dean R&D
CMR IT
Years of Exp: 12



Dr. A. Amar Jyothi
CMREC
Years of Exp: 16



Mrs. N. Hari Gauthami
Sr. Data Engineering
Microsoft
Years of Exp: 13



Dr. P. Prasanthi
Asst. Prof.
Years of Exp: 12



Dr. Mrutyunjaya S. Yalawar
CMREC
Years of Exp: 10



Dr. K. Ruben Raju
St. Martins College,
Years of Exp: 17



Dr. M. Ashwatha
Assoc. Prof. and HOD(IT)
Years of Exp: 13

Target Group

- Open exclusively to individuals from the Scheduled Tribe (ST) category.
- This includes students, young professionals, faculty members, researchers, and startups.
- A minimum of 80 participants is strongly preferred for each program.

CHIEF PATRONS



Shri. Ch. Narasimha Reddy
Chairman



Shri. Ch. Bhoopal Reddy
Vice-Chairman



Shri. Ch. Srisailam Reddy
Secretary and Correspondent

PATRON



Dr. A. Srinivasula Reddy
Principal



CONTACT DETAILS

Programme Coordinator



Dr. M. Laxmaiah
Professor and HOD
Experience : 26 Yrs.

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CMR Engineering College,
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Programme Co-Coordinator



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Experience : 13 Yrs.

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SKILL DEVELOPMENT PROGRAMME ON DATA SCIENCE USING PYTHON
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Programme Schedule

S.No	Day Wise Schedule	Name of the Resource Person	Topic
1	Day 1: Session 1 Jan 5 th -2026 (Mon) 9:30AM to 11:00AM	Dr.A.S.Reddy, Principal Dr.M.Laxmaiah, Ashok Godge Dept/College Team	Inaugural Session
2	Day 1: Session 2 Jan 5 th -2026 (Mon) 11:30AM to 1:00PM	Mr. S.Bharath Sriram DS & AI Expert	Introduction to Data Science & Python
3	Day 1: Session 3 Jan 5 th -2026 1:40PM to 3:50PM	Mr. S.Bharath Sriram DS & AI Expert	Data Handling & Pre processing
4	Day 2: Session 1 Jan 6 th -2026(Tues) 9:30 AM to 12:40PM	Mr.S.Bharath Sriram DS & AI Expert	Statistitics for Data Science
5	Day 2 : Session 2 Jan 6 th -2026 1:30PM to 3:50PM	Mr.S.Bharath Sriram DS & AI Expert	Introduction to Machine Learning,Types of ML,Applications of ML.
6	Day 3 : Session 1 Jan 7 th - 2026(Wed) 9:30AM to 11:00AM	Dr. A. AmarJyothi Assoc. Prof.	Supervised Learning Methods and Decision Trees,Bayesian Classification.
7	Day 3 : Session2 Jan 7 th - 2026(Wed) 11:10AM to 12:30PM	Dr.Ganga Dean R&D	Feature Extraction & Dimensionality Reduction
8	Day 3 : Session3 Jan 7 th -2026(Wed)1:10PM to 2:30PM	Dr.Mrutyunjaya.S.Yalawar Assoc. Prof.	KNN, SVM and ML Tools, Hands on Practice
9	Day 3 : Session 4 Jan 7 th - 2026 2:40PM to 3:50PM	Dr.P.Prashanti ML Expert	Linear Regression: Simple and multiple linear regressions
10	Day 4 : Session 1 Jan 8 th - 2026(Thu) 9:30AM to 11:00AM	Dr.P.Radha Krishna Professor	Unsupervised Learning Methods.
11	Day 4 : Session 2 Jan 8 th -2026(Thu) 11:10AM to 12:40PM	Dr. M. Ashwitha Assoc Prof and HOD(IT)	Ensemble Methods Bagging,Boosting
12	Day 4 : Session 3 Jan 8 th -2026 (Thu) 1:40PM to 3:50PM	Dr.K.Rubhan Raju Assoc Prof.	Neural Networks,Types of Neural Networks Meta Heuristic Approaches
13	Day 5 : Session 1 Jan 9 th - 2026(Fri) 9:30AM to 12:30PM	Mrs. N. Hari Gauthami Sr. Data Engineering Microsoft	Data Visualization Tools,Deployment,Case studies
14	Day 5 : Session 2 Jan 9 th -2026 1:30PM to 3:30PM	OnlineTest &feedback	Valedictory Ceremony