



# Indian Institute of Information Technology, Nagpur

BSNL-RTTC, Beside Balaji Temple, Seminary Hills, Nagpur - 440 006

[www.iiitn.ac.in](http://www.iiitn.ac.in)

## Call for Participation in Online One Week Workshop On

### “Data Science & Analytics Using Python”

DSAP - 2020

30<sup>th</sup> Nov 2020 to 4<sup>th</sup> December 2020

Organized by

Indian Institute of Information Technology, Nagpur

Sponsored by

ATAL - AICTE, New Delhi

#### Introduction

Indian Institute of Information Technology Nagpur (IIITN), is one of the Indian Institutes of Information Technology (PPP) in the country, set up with the objective of making available facilities for higher education, research and training in various fields of Information Technology. To address the challenges faced by the Indian IT industry and growth of the domestic IT market, the Ministry of Human Resource Development (MHRD), Government of India has established IIIT's. Indian Institute of Information Technology Nagpur (IIITN) is established in year 2016 by the MHRD, Government of India, Government of Maharashtra and Industry Partner Tata Consultancy Services (TCS), Mumbai. IIITN currently offering B.Tech. and PhD. programs in CSE and ECE.

#### Objective

- To understand the foundation of Data Science
- Comprehensive overview of Python for Data Science
- Collect, clean, explore, munge and manipulate data
- To meet growing needs in Data Science among the faculty and students
- To build the Data Science applications using Machine learning and Deep learning

#### Workshop Contents

- Introduction to Data Science
- Mathematics for Data Science
- Data Manipulation and Data Visualization using python
- Machine Learning and Deep Learning Techniques/Models for Data Science

#### Target Audience

Faculty of Science & Engineering Departments, PG students, and Research Scholars from AICTE approved institutions.

#### Workshop Coordinator

- Dr. Jitendra V. Tembhurne

#### Important Dates

- Workshop Dates : 30<sup>th</sup> Nov to 4<sup>th</sup> Dec 2020

#### Workshop Registration

- Participants are requested to visit institute website or ATAL website
- Once the registration is confirmed, the details will be mailed to the participants.
- Registration will be done strictly on First Come First Serve (FCFS) basis, as seats are limited.

#### Workshop Fees

- No fees for participants

#### Contact Information

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Name of the Institute/Organization: **Indian Institute of Information Technology, Nagpur**

Title of the Workshop: **Data Science & Analytics Using Python (DSAP - 2020)**

**From 30<sup>th</sup> Nov to 4<sup>th</sup> December 2020**

### Schedule

Dates	10:00 AM to 11:30 AM		12.00 PM to 1.30 PM		2:30 PM to 4.00 PM	4:15 PM to 4:45 PM
30 <sup>th</sup> Nov, 2020	Inauguration	<b>Tea</b>	<b>Session 1</b> Introduction to Data Science & Application in Various Domains	<b>Lunch</b>	<b>Session 2</b> Mathematics for Data Science – Part – I	<b>Tea</b>
1 <sup>st</sup> Dec, 2020	<b>Session 3</b> Mathematics for Data Science – Part – II		<b>Session 4</b> Data Analytics Techniques & Visualization		<b>Session 5</b> Stress Management / Productivity enhancement /Capacity Building	
2 <sup>nd</sup> Dec, 2020	<b>Session 6</b> Dimensionality Reduction		<b>Session 7</b> Introduction to Machine Learning		<b>Session 8</b> Supervised & Unsupervised Learning	
3 <sup>rd</sup> Dec, 2020	<b>Session 9</b> Classification & Regression		<b>Session 10</b> Decision Trees & Applications		<b>Session 11</b> Support Vector Machine	
4 <sup>th</sup> Dec, 2020	<b>Session 12</b> Deep Neural Networks Part – I		<b>Session 13</b> Deep Neural Networks Part – II		<b>Session 14</b> Sequence Models & Applications	<b>Valedictory</b>