

Focus Areas – Data Science

- Introduction to Data& ML
- Data Preprocessing & Visualization
- Association Rule Mining & Algorithms
- Data Classification& Clustering
- Text Processing Techniques& Text Analytics using Python packages
- Introduction to Deep Learning
- Time Series Techniques in Python
- Python - Basic Programming Skills
- Python Packages for Text Processing & Analytics
- Python for Classification, Clustering & other analytics
- Python for performing sentimental analysis on Social Media data

Practice sessions will be conducted to test drive the above techniques in Python in an interactive format.



About the Workshop (DSP-20)

The workshop is focused in the areas of Data Science, Machine Learning and Python. In this age of intelligent computing and smart solutions, machine learning and data analytics have percolated across domains. This 5 day workshop is planned to cover the fundamentals in Machine Learning and Data Analytics. A detailed listing of the various topics planned is given in the brochure. The workshop shall draw expertise from the institute faculty and neighboring institutes of excellence such as IITs, and industry resource persons& PG scholars as part of its content delivery team. Given the practical relevance of the area(s), it is also planned to have practice sessions that help the participants in realizing the various techniques put across in the machine learning & data analytics. The workshop targets faculty, research scholars and PG students who work in the areas of machine learning, data mining, big data analytics, etc

Note - The entire workshop is planned for online mode, given the prevailing scenario. in the country.

Patron

Prof Banshidhar Majhi, Director IIITDM

Coordinators

Dr B Sivaselvan Associate Professor,

Co - Coordinators

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IIITDM
KANCHEEPURAM

organizes a 5 day Workshop/FDP

Data Science using Python (DSP'20)

Sponsored by

**AICTE Training & Learning Academy
(ATAL)**

IIITDM Kancheepuram, a centrally funded institute offers UG and PG programs in computer, electronics and mechanical engineering with the mandate of excelling in IT and IT enabled Design & Manufacturing pedagogy and research. B.Tech, M.Tech, Dual Degree courses specializing in VLSI, Systems Design, etc. and Ph.D programmes in core areas of engineering are offered by us. Curricula for these programmes augment engineering domain with relevant design & manufacturing skills. More details at www.iiitdm.ac.in

Registration

<https://www.aicte-india.org/atal>. Approved

participants may also email an NOC from their

HoD / Principal / Director / Respective authorities

Workshop on Data Science using Python (DSP), Nov 16-20 2020

(* topics are only indicative and not exhaustive)

Date	Session 1(10-11.30 AM)		Session 2 (11.45AM-1.15PM)		Session 3 (2.30PM to 4.30PM)
16/11/20	Data Science Introduction – An Applied AI Perspective Dr B Sivaselvan, IIITDM Kancheepuram	T E A B R E A K	Overview of Python Programming (Basics) for Data Science Manasa , Dhivya (Trimble Pvt Ltd) & Vidathri (Mathworks Pvt Ltd)	L U N C H B R E A K	Python Programming Sessions – Exposure to Data Visualization, Descriptive Analytics Packages, etc. Manasa, Dhivya and Vidathri
17/11/20	Basic Descriptive Analytics Techniques - Python Packages Vedant Bassi, Applied AI Engineer, Signzy Technologies		Association Rule Mining Techniques – An Overview & Practice Sessions Dr B Sivaselvan, IIITDM Kancheepuram Mr Sarvana Balaji, Google India		Classification as a Basic Data Analytics Technique Harini Ramprasad and Shivesh Freelance Consultant(s)
18/11/20	Supervised Learning Algorithms for Data Science Dr B Sivaselvan, IIITDM Kancheepuram Harini Ramprasad, Freelance Consultant		Natural Language and Text Analytics Dany Prajash, GAVS Tech Pvt Ltd Akash V , Trimble Pvt Ltd. Mukesh , Buddihealth Pvt Ltd.		Practice Sessions related to Data Classification and Text Analytics Dany Prakash, Akash, Mukesh
19/11/20	Unsupervised Learning for Data Science Dr B Sivaselvan, IIITDM Kancheepuram		Social Media Data Analytics Dr Nargis Pervin, IIT Madras (DOMS)		Practice Sessions on Clustering and Social Media Analytics – Python Packages Anmol Gupta (Trimble), Dany Prakash & Akash
20/11/20	Introduction to Deep Learning Eashan Dash , AMD India Pvt Ltd		Financial Data Analytics Prof Kamakoti (IIT Madras) Mr Kaushi Raghavan, Resileo Labs		Practice Sessions on Deep Learning and Finance Data Analytics Kaushik Raghavan and Eshan Dash