

Tools for AICTE Sponsored Two Week FDP on “Insights into Intelligent Automation, Machine Learning and Data Science”

1) [Python 3.8](#)

Libraries:

[Numpy](#), [Scipy](#), [Pandas](#), [Matplotlib](#), [Sklearn](#), [Scrapy](#). Packages

2) [R studio](#)

3) [SCALA](#)

4) [Hadoop](#)

5) [Google Colab](#)

Date	Morning	Evening
19/10/2020	<p>Keynote Speech: Data Sovereignty (9.30 to 10.30 am)</p> <p>Foundation of mathematics for data science: Maths for NN- activation functions (10.30 am to 1.15pm)</p>	<p>Demo/Hands-on: Maths for NN- activation functions</p> <p>Tool: Python 3.8</p>
20/10/2020	Math for ML, Linear Algebra and Matrix operations	<p>Topic : Hands-on Python</p> <p>Tool: Python 3.8</p> <p>Libraries: Numpy, Scipy, Pandas, and Matplotlib, Sklearn. Packages</p>
21/10/2020	Statistics for data science:	
22/10/2020	Understanding Applications & Programming	
23/10/2020	<p>Tensors Inferential statistics</p> <p>Tool: Python 3.8</p> <p>Libraries: Numpy, Scipy, Pandas, and Matplotlib, Sklearn. Package</p>	
24/10/2020	<p>R Programming Fundamentals for data science</p> <p>Tool: R Studio</p>	<p>R Programming Fundamentals for data science</p> <p>Tool: R Studio</p>
26/10/2020	R Programming Fundamentals for data science	<p>Case Study on R-Programming</p> <p>Tool: R Studio</p>

	<p>Tool: R Studio</p>	
27/10/2020	<p>Scalable data science</p> <p>Tool: SCALA Hadoop</p>	<p>PySpark in Google Colab</p> <p>Tool: Google Colab</p>
28/10/2020		<p>Coding dimensionality reduction in Python using PCA,SVD, LDA techniques</p> <p>Tool: Python 3.8 Libraries: Numpy, Scipy, Pandas, and Matplotlib, Sklearn. Packages</p>
29/10/2020		
30/10/2020	<p>Developing Projects to automate our daily task using Python</p> <p>Tool: Python 3.8 Libraries: Scrapy</p>	