

# One-month Training on “Artificial Intelligence and Machine Learning”

**Date:** Monday, 16<sup>th</sup> Aug 2021

**Time:** All week days: 5.00 – 7.00 pm (Except Saturdays and Sundays)

## Schedule for the Training

SL. No.	Date & day	Topics	Subject Expert
<b>Module I – Python Programming</b>			
1	Monday 16-08-2021	Introduction to Python, Numpy, PANDAS and MATPLOTLIB	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
2	Tuesday 17-08-2021	Introduction to Python, Numpy, PANDAS and MATPLOTLIB, Advanced Libraries (PYTHON)	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
3	Wednesday 18-08-2021	Introduction to Python, Numpy, PANDAS and MATPLOTLIB, Advanced Libraries (PYTHON) and Data Visualisation using PYTHON	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
<b>Module 2: Statistics Essentials</b>			
3	Thursday 19-08-2021	Statistics Essentials and PYTHON statistical applications for ML/AI	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
4	Friday 20-08-2021	PYTHON statistical applications for ML/AI	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
<b>Module 3: ML – PySPARK Essentials</b>			
5	Monday 23-08-2021	Installing PySpark and Setting up development environment	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
6	Tuesday 24-08-2021	Getting your Big Data into your SPARK Environment	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
7	Wednesday 25-08-2021	Big Data Cleaning and Wrangling with SPARK Notebooks	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
8	Thursday 26-08-2021	Aggregating and Summarising data into useful reports	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
9	Friday 27-08-2021	Powerful EDA with MLLib	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
10	Monday	Powerful EDA with MLLib	Dr. S Suresh Kumar,

	30-08-2021		CTO PyWiz Analytica Pvt Ltd Bangalore
11	Tuesday 31-08-2021	Putting structure on your big Data with SPARK SQL	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
12	Wednesday 01-09-2021	Putting structure on your big Data with SPARK SQL	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
13	Thursday 02-09-2021	Putting structure on your big Data with SPARK SQL	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
14	Friday 03-09-2021	Transformations and Actions	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
15	Monday 06-09-2021	Transformations and Actions	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
16	Tuesday 07-09-2021	Immutable design	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
17	Wednesday 08-09-2021	Saving data in correct format	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
18	Thursday 09-09-2021	Saving data in correct format	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
19	Friday 10-09-2021	Leveraging SPARK GraphX API	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
20	Saturday 11-09-2021	Leveraging SPARK GraphX API	Dr. S Suresh Kumar, CTO PyWiz Analytica Pvt Ltd Bangalore
21	Sunday 12-09-2021	<b>Conclusion and Valedictory</b>	

Note :

- All exercises shall be done on COLAB
- Multiple Mini projects shall be administered to the trainees
- Participants shall get an exposure to hands on Live project