

**Data Science Research and Big Data Analytics (Version 2.0)**

<b>Week</b>	<b>Content</b>	<b>No. of Weeks</b>
1	Introduction and Course Overview	1
2	Introduction to Data Science and Big Data Analytics	1
3	Data Science and Asking Questions	1
4	Python Fundamentals	4
8	Statistics Fundamentals using Python	1
9	Writing Research Papers	1
10	Data Modelling Fundamentals	1
11	Data Visualization Fundamentals	1
12	Tableau Fundamentals	1
13	NoSQL for Data Science	1
14	GRAPH Databases - Neo4J & Cypher	1
15	Data Pre-processing and Exploratory Data Analysis	1
16	Introduction to Machine Learning and ANN	1
17	Unsupervised Learning	1
18	Recommender Systems	1
19	Time Series Analysis	2
21	Regression Techniques	1
22	Classification Techniques	1
23	Ensemble and Advanced Machine Learning Techniques	1
24	NLP - Sentiment Analysis	2
26	Apache Spark - PySpark	2
28	Introduction to Deep Learning	1
29	Deep Learning with Tensorflow and Keras	2
31	Building Data Pipelines	1
32	Writing Research Papers	1

**Course will include Regular Exercises on Data Science, Capstone Projects and Data Hackathons.**

**Course Duration: 180 Hours**

**Course Fees: Rs. 36000 (can be paid in 6 instalments)**

**Batch Size: 8 (on First Come First Served basis)**