Report on Workshop on Big Data Analytics

Department of Information Technology (IT) and Electronics and Communication Engineering (ECE) jointly organized a One Week Workshop on Big Data Analytics from 18th July to 22nd July, 2017. Total 44 participants (students, faculty members and research scholars) from IGDTUW and other Universities/Institutes including of Delhi University, GGSIPU, Jamia Hamdard, Amity University, AKTU, TERI attended the workshop. Following Resource Persons were invited for delivering the technical theoretical and practical sessions:

1. Prof. R K Agarwal, JNU, New Delhi
2. Mr Himanshu Gupta, Senior Researcher, IBM Research Lab, New Delhi
3. Mr Devender Singh, Joint Director, CDAC, Noida
4. Dr. T V Vijay Kumar, Associate Professor, JNU, New Delhi
5. Ms Pallavi Kar, Engineer, MathWorks, Bangalore
6. Mr Sarvpriya, Chief Security Officer, Altdos, New Delhi
7. Ms Preti Gupta, Scientist D, NTRO, New Delhi
8. Mr Vikas Kaushik, MathWorks, Bangalore
9. Mr. Sumit Yadav, Asst. Professor, IGDTUW
10. Ms Neha Bansal, Research Scholar, IGDTUW

Workshop was partially financially supported by HDFC Bank, IEEE Student Chapter – IGDTUW and ASEA Project – IGDTUW. ACM Student Chapter, IGDTUW sponsored the fee of five students for the Workshop.

Workshop was started with the Inaugural Function on 18th July, 2017, which was attended by the Registrar, Dean (Examination Affairs), HoD – IT and HoD – ECE. First session was delivered by Prof. R K Agarwal, Professor, JNU who set the theme of the Workshop by giving the basic concepts of Big data and Machine Learning approaches used for Big Data Analytics. Next session was delivered by Mr Himanshu Gupta from IBM who explained the core concepts of Hadoop, HDFC and MapReduce. Session was very interactive.
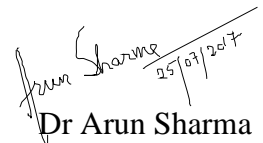
Next Day on 19th July, Mr Devender Singh from CDAC, Noida conducted a practical Hands-on session on Pig and Hive. Participants were provided an access to Cloudera for conducting lab exercises. Post lunch session was conducted by Dr T V Vijay Kumar from JNU who discussed various research issues on Big Data.

Third day was a full day Hands-on session on MapReduce and Hadoop which was conducted by Ms Pallavi Kar and her team from MathWorks, Bangalore. The session was well appreciated by all the participants. Team distributed some goodies from MathWorks to the participants. On 21st July, security issues in Big Data were discussed by Mr Sarvpriya from Altdos systems. Rest of the sessions were conducted by Mr Sumit Yadav and Ms Neha Bansal from IGDTUW on R. Few exercises on R were performed by the participants.

Last day on 22nd July, Ms Preeti Gupta from NTRO explained about Spark Framework with the help of some real world problems. Participants performed exercises on Spark Framework by using cloud environment.

After the Workshop, feedback was taken from the participants and certificates were awarded to all the participants and coordinators. Overall it was a good learning experience for all the participants and everyone appreciated the University for organizing such an excellent workshop.

Dr Arun Sharma, Associate Professor, Department of IT and Dr Akash Tayal, Assistant Professor, Department of ECE were the Convener and Co-Convener of the Workshop. Students from IT and ECE departments volunteered for various activities for the smooth conduct of the entire event.

Dr Arun Sharma
Associate Professor – IT and Convener – Big Data Workshop