

Report on Skill Development Programme



“Machine Learning Techniques & Data Visualization Tools”

(19-20 January, 2018)

Skill Development Program (SDP) was organized by Department of Information Technology, Sree Vidyanikethan Engineering College, A. Rangampet. The SDP was organized for two days i.e., January 19-20, 2018 for the benefit of students of III IT A and B sections. About 94 students are actively participated and gained useful information from all the sessions.

Day 1: 19-01-2018 (Friday)

Session 1:

The skill Development Program was addressed by **Dr. K. Ramani**, HOD of IT & Convener of the Programme, at 9:00 A.M. the first session was initiated by **Mr. A. Srinivasulu**, Associate Professor of IT, SVEC from 9.15 AM – 11.15 AM, delivered on overview of SPARK, the features of SPARK and the differences between SPARK and Hadoop. The students interacted with resource person and clarified their doubts regarding real-life analytics of Apache SPARK.

Session 2:

Dr. O. Obulesu, Associate Professor of IT, SVEC has taken this session from 11.30 AM – 1.30 PM, delivered a lecture on basics of R Studio, Loops, Functions, Data frames and aggregations. The students interacted with resource person and discussed about implementation algorithms and datasets they are analysing in their academic & research work.

Session 3:

Mr. A. Srinivasulu, Associate Professor of IT, SVEC, from 2:00 PM – 3.30 PM, demonstrated on SPARK framework and its Ecosystem. The students fascinated with implementation of machine learning algorithms such as K-means and k-nearest neighbors and interacted with resource person and clarified their doubts regarding spark components and features.

Session 4:

Dr. O. Obulesu, Associate Professor of IT, SVEC, from 3:45 PM – 5.00 PM, delivered a lecture on implementation of Association Rules Learning and Linear Regression using R-Studio and its results. The students interacted with the resource person and their doubts on unsupervised learning techniques were clarified by him.

Day 2: 20-01-2018 (Saturday)

Session 1:

Mr. Anki Reddy Polu, Lead Engineer, SoftwareAG Chennai development center from 9:00 AM – 11.00 AM, demonstrated on Elastic Search and Kibana framework and Anatomy of a Kibana Tool. The students interacted and clarified their doubts by the resource person.

Session 2:

Mr. Ramesh Ragala, Senior Assistant Professor of SCSE, Vellore Institute of Technology, Chennai from 11.15 AM – 1.15 PM, Demonstrated all the features and options involved in Tableau visualization tool. The students interacted with him to discuss about advanced data visualization methods used in Tableau.

Session 3:

Mr. Anki Reddy Polu, Lead Engineer, SoftwareAG Chennai development center, from 1:45 PM–3.45 PM, delivered a lecture on Kibana installation and dashboard creation. The students interacted with him to discuss about real time analytics on Kibana and Elastic search.

Session 4:

Mr. Ramesh Ragala, Senior Assistant Professor of SCSE, Vellore Institute of Technology, Chennai, from 4:00 PM – 5.30 PM, demonstrated on integration of R with tableau and simple machine learning techniques such as decision trees, k-means clustering algorithm using R Studio tool.



Fig. 1: **Mr. A. Srinivasulu**, Associate Professor of IT, SVEC initiated the session



Fig. 2: **Dr. O. Obulesu**, Associate Professor of IT, SVEC addressing the gathering.



Fig. 3: **Mr Mr. Anki Reddy Polu**, Lead Engineer, SoftwareAG demonstrating Kibana Framework.



Fig. 4: **Mr. R. Ramesh**, Assistant Professor (Sr), VIT-Chennai demonstrating Tableau tool.