

JSS MAHAVIDYAPEETHA

JSS SCIENCE AND TECHNOLOGY UNIVERSITY

SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING
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Webinar On

MULTIVARIATE DATA ANALYSIS USING SPSS

Co-ordinators- Dr. B Manoj Kumar, Savitha Ulavi

Webinar titled 'Multivariate Data Analysis using SPSS' was organised by department of environmental engineering on 1st August 2020 for 70 participants. The participants who attended this webinar includes UG students from SJCE and Research Scholars, Faculty from various universities in India (IITM Chennai, VIT Vellore, Anna University Tamil Nadu, Y.S.R engineering college Andhra Pradesh, MLVTEC Rajasthan, Reva University Bengaluru). The invited speaker for the webinar was Mr. Vijay More, Associate manager from Accenture Pvt Ltd. The guest speaker covered various topics of research interest -data handling (outlier detection, missing value imputation), multiple linear regression, decision tree, dimensionality reduction -principal component analysis. All these techniques were demonstrated clearly for historical air pollution data using a statistical tool SPSS V22.0. In addition to SPSS, the speaker also demonstrated an API (Application Programming Interface) built in Python to make future air quality predictions using random forest algorithm. This was to give participants a feel of how to run a python script and how business deployment that happens as part project deliverable normally in MNC's.

The webinar was highly useful for our UG students of 6th and 4th semester in specific as it paved the way for greater learning when they take up Environmental Statistics- Methods and Applications (Elective II) in 7th semester. For 8th semester and M.Tech students the webinar was useful for data analysis generated in their project work. The Ph.D scholars showed great interest during interaction session and discussed about their current research work and got their queries clarified. Overall the knowledge and experience of the speaker was highly useful for participants and motivated students for higher learning in the field of data science/engineering. Though the webinar was planned for 2 hours it was split over for 1.5 hours in morning and 1.5 hours in the afternoon total adding up for 3 hours including



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interaction session. The feedback collected from participants is also enclosed with this report. From analysis of feedback response it is observed that

- 56.3% have rated webinar as 5 on the scale of 1-5 (low to high) indicating webinar was excellent
- 42% have rated webinar as 4 on the scale of 1-5 (low to high) indicating webinar was good
- 2% have rated webinar as 3 on the scale of 1-5 (low to high) indicating webinar was satisfactory
- 94% of the participants have expressed that they are willing to attend an extended version of this session/topic.

Overall feedback analysis helped us understand webinar was highly useful for participants and it was a great success.

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