

ONE DAY SEMINAR ON  
APPLICATIONS OF STATISTICS  
IN OFFICIAL SYSTEMS AND  
DIGITAL AGE  
AND  
BOOK RELEASE OF  
Prof. K. C. JAMES



Organised by  
Department of Statistics, CUSAT  
jointly with  
Department of Economics and  
Statistics, Ernakulam



01 February, 2024  
09.00 AM - 04.00 PM

<https://meet.google.com/pkd-kner-cik>


Coordinator: Dr. Princy T. (9446682020)

Assistant Coordinators:


Dr. Irshad M. R.

## SPEAKERS




 Smt. Indu K. A.  
Research Officer, DES Ernakulam  
Title: *An overview and mission  
Antyodaya survey*  
10.00 AM - 11.30 AM




 Dr. C. G. Joshy  
Senior scientist, CIFT, Kochi  
Title: *Estimation of trend and growth  
rate using nonlinear regression model*  
11.45 AM - 01.00 PM



 Dr. T.M. Jacob  
Associate Professor, Dept. of Statistics,  
Nirmala College, Muvattupuzha  
Title: *Data at your fingertips: A guide  
to live data collection for statisticians*  
02.00 PM - 04.00 PM

## BOOK LAUNCH EVENT

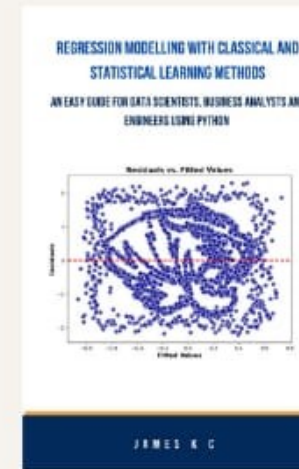


 Prof. K. C. James (Author)  
Department of Statistics, CUSAT  
Title: *"Regression Modelling with Classical  
and Statistical Learning Methods: An Easy  
Guide for Data Scientists, Business  
Analysts and Engineers using Python"*

**Book release:** Prof. (Dr.) P. G. Sankaran,  
Hon'ble Vice Chancellor, CUSAT

**Felicitation:** Prof. (Dr.) Sam Thomas,

## ABOUT THE BOOK



1. Introduction to Regression Analysis
  2. Introduction to scatter plots and basic terms
  3. Simple Linear Regression
  4. Multiple regression
  5. Polynomial Regression
  6. Diagnostics, Transformations and model improvements
  7. Categorical Predictors and Interactions
  8. Logistic regression
  9. Machine Learning
  10. Introduction to Decision Trees and Regression Trees
  11. Support Vector Regression (SVR)
  12. Artificial Neural Networks (ANN) for regression
  13. Other types of regression methods
  14. Python tools
- Appendix : Glossary

"Regression analysis holds a key position in data science, serving as a basic tool for modelling and deciphering relationships between variables. Its importance extends across diverse domains, from finance and economics to biology and social sciences, allowing data scientists to harness its predictive capabilities and glean valuable insights from complex datasets. This book emerged out of the necessity to introduce regression modelling techniques to postgraduate students in data science with diverse backgrounds. Some students have an engineering background, while others have studied mathematics and statistics. A significant number of students from both categories were observed to face challenges in understanding the mathematical aspects of regression modelling and in writing Python code. Another issue I have found is that most classical regression books do not discuss modern regression tools especially related to statistical learning."