Seminar Announcement: Regression Analysis with R

We are glad to invite you to enroll in our **"Regression Analysis with R: An Intuitive and Hands-On Seminar."** Join us for an engaging and practical two-hour seminar introducing regression analysis's fundamental concepts and applications, using R as the primary tool.

Seminar Highlights

This seminar will cover the following topics:

1. **Overview of Regression Analysis**
   - Purpose and applications.
   - Key concepts: dependent and independent variables.
   - Understanding causality in regression.

2. **Setting Up the Analytical Framework**
   - The regression equation: slope, intercept, and error terms.
   - Types of regression: simple and multiple linear regression.

3. **Simple Linear Regression**
   - Fitting a line through data points to explain and predict outcomes.
   - Interpreting regression coefficients.
   - Visualizing results using scatterplots and residual analysis.
   - Practical examples with real-world datasets.

4. **Multiple Linear Regression**
   - Incorporating multiple predictors and evaluating their impact.
   - Assessing model fit: R-squared and adjusted R-squared.
   - Understanding multicollinearity and model assumptions.

5. **Predicting Outcomes and Decision-Making**
   - Using regression models for predictions in various fields.
   - Communicating results through tables, charts, and interpretation.
   - Discussing the limitations and alternatives to regression models.

6. **Wrap-Up and Q&A**
   - Recap of key concepts: regression basics, interpreting coefficients, and evaluating models.
   - Open discussion for clarifying doubts and sharing insights.

Seminar Details

a) **Enrollment:**
   Please complete the **ENROLLMENT FORM** and click the "Send" button.

b) **Seminar Materials:**
   Materials, including slides (PDF) and R code, will be shared on Google Classroom. Access details will be provided after enrollment.

c) **Seminar Format:**
   A two-hour online English seminar will be held on a date and time arranged in coordination with the enrolled participants.

d) **Fill out the form to enroll and invite friends. Please** note that some English proficiency, statistics knowledge, and basic R skills are required.

e) **Cost:**
   This seminar is **free of charge** and open to everyone interested.

Ricardo Lima, Ph.D.