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Embracing Change: The Future of Business, Economy & Technology

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Tashkent, Uzbekistan

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Edited by Bakhrom Mirkasimov

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Embracing Change: The Future of Business, Economy & Technology

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Simulation Study on Double Bootstrap Confidence Intervals in Linear Models: Case of Outliers

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The marginal effects in linear models have been of considerable interest in social science. Inferences about marginal effects have relied largely on asymptotic methods which have an assumption that the limiting distribution of the estimator is normal. We introduce the bootstrap approach as an alternative way to construct confidence intervals and to estimate the sampling distributions of estimators of marginal effect in a linear model. We illustrate the performance of traditional methods and bootstrap procedures in case of bad outliers. We make use of the double bootstrap procedure for confidence interval estimation. Results indicate that double bootstrap confidence intervals outperform traditional OLS intervals in presence of severe outliers in small samples.

Key words: Linear models, Double Bootstrap, OLS intervals, Confidence intervals

AI Enabled Education Management: Navigating the Opportunities and Challenges

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An overview of the advantages and disadvantages of using artificial intelligence (AI) in education management is provided in this study. The application of AI to improve teaching and learning, boost educational data analysis, streamline assessment, and offer individualized learning experiences are all covered in this article. It also highlights the moral and societal issues with AI in education, such as privacy worries, algorithmic bias, and the possibility that AI could take the role of human teachers. Students can get individualized guidance and support that fits their unique learning preferences and styles with the aid of AI. Teachers can focus more on creating creative lesson plans and forming relationships with their students by using AI-powered technologies to automate grading and feedback. The need of ethical frameworks and policies that support the responsible use of AI in education is emphasized in the paper's conclusion, along with the necessity of careful thought and planning in the integration of AI into
education management.

Keywords - Education management, personalized learning, analysis of educational data, assessment, privacy issues, bias in AI, and human teachers are some of the terms used in this section.