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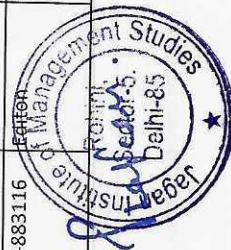
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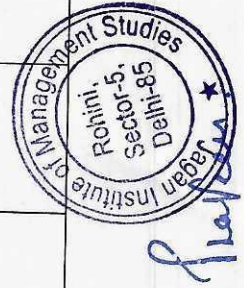
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1	Dr. Deepshikha Aggarwal	BP International	Scientific Research : New Technologies and Applications	Investigating AI's Contribution to Improving Quality and Mitigating Challenges in Higher Education	https://stm.bookpi.org/SRNTA-V8/article/view/16318	eBook ISBN: 978-93-48388-14-8, DOI: 10.9734/bpi/srmta/v8/3060	01-11-2024	Chapter
2	Dr. Deepshikha Aggarwal	B P International Publishing House	Business Management and Economic : Research Progress	Artificial Intelligence : A New Tactic to perform Banking Operations	https://stm.bookpi.org/BMERP-V5/article/view/15882 https://www.bookpi.org/books-tore/product/business-management-and-economics-research-progress-vol-5/	Print ISBN: 978-93-48119-07-0, eBook ISBN: 978-93-48119-00-1, DOI: https://doi.org/10.9734/bpi/bmerp/v5/1891	01-10-2024	Chapter
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4	Dr. Deepshikha Aggarwal	B P International Publishing House	Science and Technology: Developments and Applications	Sustainable Artificial Intelligence (AI): Challenges Confronted	DOI: https://doi.org/10.9734/bpi/stda/v5/3923	Print ISBN: 978-93-49238-43-5, eBook ISBN: 978-93-49238-34-3	01-02-2025	Chapter
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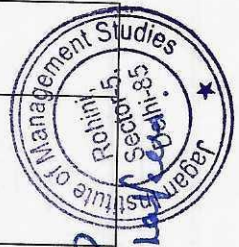


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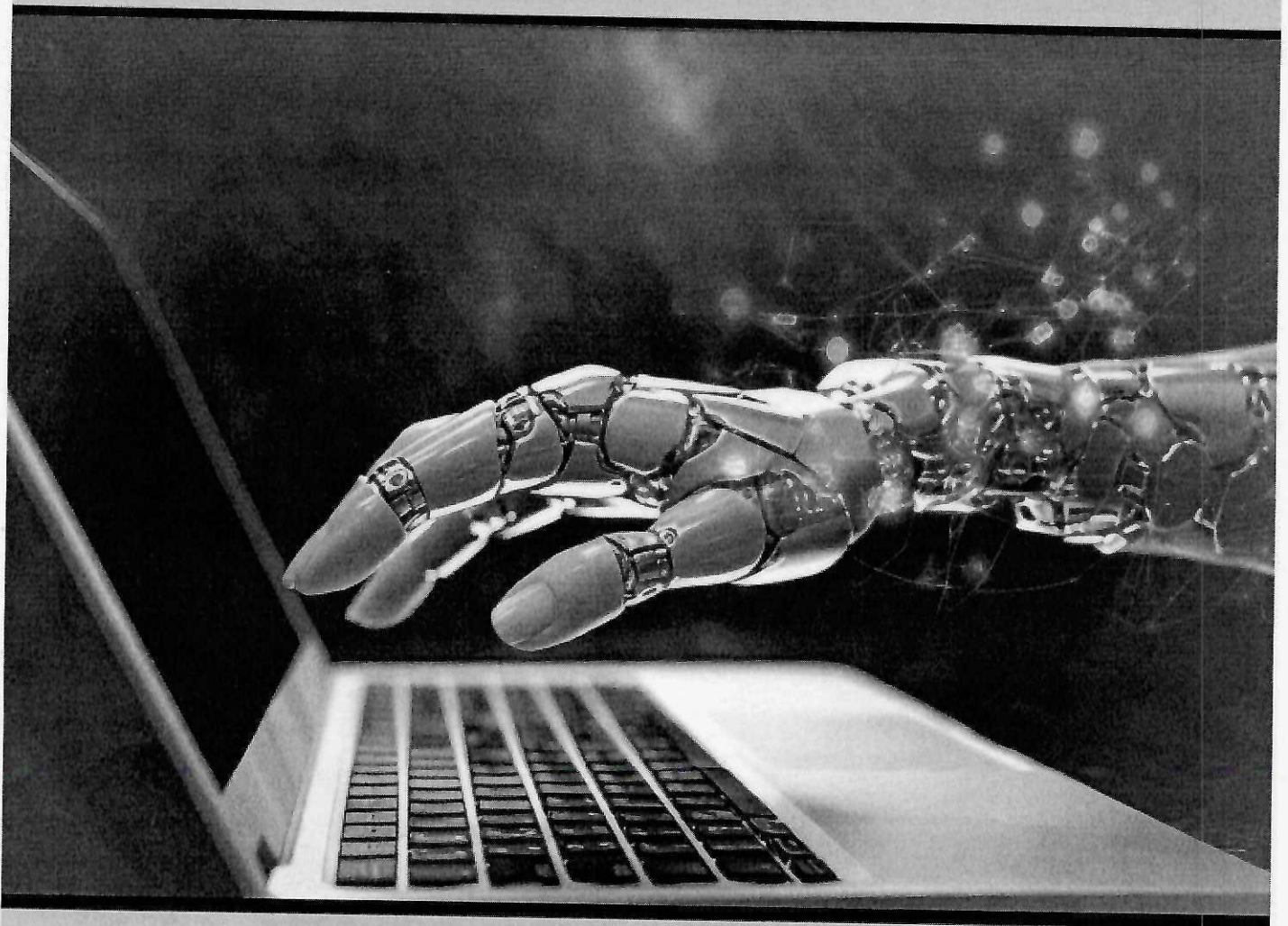
25	Dr. Deepti Sharma	B P International Publishing House	Business Management and Economic : Research Progress	Artificial Intelligence : A New Tactic to perform Banking Operations	https://stm.bookpi.org/BMERP-V5/article/view/15882 https://www.bookpi.org/bookstore/product/business-management-and-economics-research-progress-vol-5/	Print ISBN: 978-93-48119-07-0, eBook ISBN: 978-93-48119-00-1, DOI: https://doi.org/10.9734/bpi/bmerp/v5/1891	01-10-2024	Chapter
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Scientific Research, New Technologies and Applications

Vol. 8

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Investigating AI's Contribution to Improving Quality and Mitigating Challenges in Higher Education

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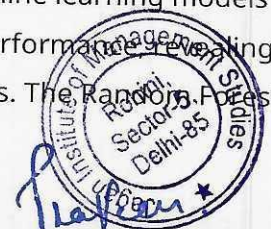
Jagan Institute of Management Studies, Delhi, India.

DOI: <https://doi.org/10.9734/bpi/srnta/v8/3060>

Keywords: Artificial intelligence, higher education, AI in education, machine learning

Abstract

Artificial Intelligence (AI) is transforming many sectors, and higher education is no exception. This study aims to explore how AI impacts the quality of higher education by reviewing existing literature and analysing data using various machine learning algorithms. The integration of AI in education raises important ethical concerns, including data privacy, algorithmic bias, and the digital divide. Addressing these challenges is crucial to ensuring that AI applications in education are fair, transparent, and equitable. This study will explore these ethical considerations and propose strategies to mitigate potential risks. This study explores the impact of Artificial Intelligence (AI) on the quality of higher education through a mixed-methods approach, combining a comprehensive literature review, quantitative data analysis, and qualitative insights. The research aims to evaluate how AI-driven technologies, including personalized learning systems, administrative automation, intelligent tutoring systems, and predictive analytics, enhance educational outcomes and address the diverse needs of students. Using the "Students Performance in Exams" dataset from Kaggle, machine learning models such as Linear Regression and Random Forest were applied to predict student performance, revealing significant predictors and demonstrating the efficacy of AI in educational contexts. The Random Forest



model outperformed Linear Regression, underscoring the importance of non-linear approaches in capturing complex educational dynamics. Additionally, thematic analysis of case studies and expert interviews provided qualitative insights into the practical applications and challenges of AI in higher education. The findings indicate that AI technologies significantly contribute to personalized learning, administrative efficiency, and improved student engagement while highlighting ethical concerns related to data privacy and algorithmic bias. This research offers valuable implications for educators, administrators, policymakers, and technologists, advocating for the responsible and equitable integration of AI in higher education to enhance the overall quality of educational experiences and outcomes.



Business, Management and Economics: Research Progress

Vol. 5

Edited by Prof. Chun-Chien Kuo



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Artificial Intelligence: A New Tactic to Perform Banking Operations

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DOI: <https://doi.org/10.9734/bpi/bmerp/v5/1891>

Keywords: Generative artificial intelligence, banking operations, banking culture, digitization, latest technology trend, artificial intelligence

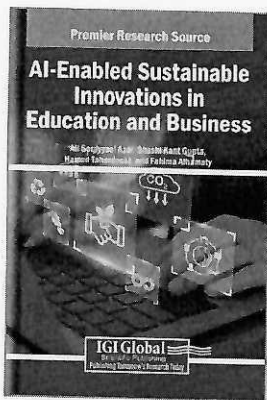
Abstract

Since the existence of banking culture in India around 1770 (Pre-independence phase) the bank has evolved as per the trends that exist in that era. From the Pre-independence phase to the nationalisation phase (1969) and then to the Liberalisation phase (1990 onwards) and now the digitization phase (from the last few decades). Banks have implemented changes in their working mechanism very gracefully. The most recent is the digitization phase: where only banking internal work was digitized and human power was not replaced but literate to complete their operations through machine support more efficiently in less latency. During the internet boom era, when the WWW cloud covered the industries with its thick sheet of benefits, the banking sector opted for digitizing all its records and allowing access to its customers through login details. In the current technology trends, AI (Artificial Intelligence) is ruling the tech world and banking is no less than any industry in adopting this latest technology trend. Artificial intelligence is not only simplifying processes and increasing revenue but also improving business results and increasing customer satisfaction. To achieve AI's contribution in the banking



sector, authors have worked to enlist AI algorithm's contribution and association with various banking operations/services.





Sustainable Innovation in Healthcare: The Role of Large Language Models

Akanksha Upadhyaya (JIMS, India), Manoj K. Mishra (/affiliate/manoj-k-mishra/508070/) (O.P. Jindal University, India), Seema Nandal (Pt. J.L.N. Government College, Faridabad, India), Anumaan Whig (Delhi Technological University, India), and Pawan Whig (/affiliate/pawan-whig/472637/) (VIPS, India)

Source Title: AI-Enabled Sustainable Innovations in Education and Business (/book/enabled-sustainable-innovations-education-business/374170)
Copyright: © 2025

Pages: 22

DOI: 10.4018/979-8-3373-3952-8.ch012

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Abstract

Large Language Models like transformers and chat GPT have brought about a considerable shift in the healthcare system in areas like support for clinical decision, education of the patients, and diagnosis. These models have been used in different applications such as clinical Natural Language Processing (NLP), medical image analysis, Electronic Health Record (EHR). However, the involvement of LLMs in healthcare has some challenges because of the importance of medical information that makes any error critical, hence rigorous evaluation is required to prevent the error. This Chapter provides an extensive literature review of LLMs' use in healthcare to demonstrate how these models may contribute to profound system changes and improvements in healthcare processes and studies. Besides highlighting the many beneficial uses of LLMs, this paper further presents the ethical issues and sustainability issues such as data privacy, bias and the necessity for adequate validation.

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Preface

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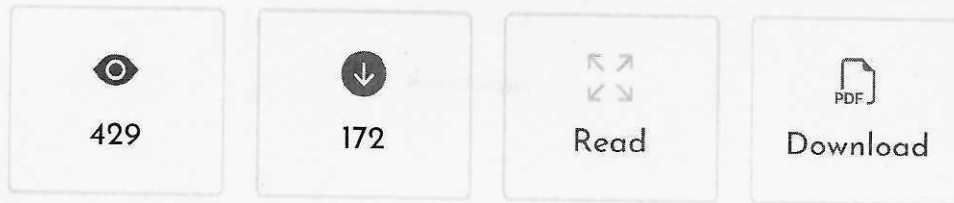
A Novel Framework for Java Based Data Race Detection using ECC-EVKM-BERT and SS-LSGRU with KL-FBIS

Authors: Devesh Lowe and Mithilesh Kumar Dubey

Publishing Date: 02-01-2025

ISBN: 978-81-975670-3-2





Abstract

When two or more threads visit a shared variable concurrently and at least one of those accesses is a write operation without the necessary synchronization mechanisms in place, it's known as a data race in multi-threaded algorithms. Unpredictable behavior, such as damaged data, software crashes, and inconsistent outputs, may result from this. Since data races can appear inconsistently based on thread scheduling and time, they are infamously hard to debug. Data races can have serious consequences, such as unstable software that responds erratically to various stimuli. They jeopardize data integrity, which can lead to subtle errors that are challenging to find and correct. Furthermore, they may give rise to security flaws since unauthorized parties may be able to take advantage of the access to data. Numerous methods, including hybrid methods, dynamic analysis, and static analysis, are used to identify data races. Deep Learning algorithms, recently, have proved to be an effective way to identify new data races more accurately. Through the identification of intricate patterns and anomalies that conventional methods might overlook, these techniques can be used to examine big codebases and execution patterns in order to understand how to spot data races. To improve the accuracy and recall of detection efforts, models that predict the likelihood of data races can be trained using labeled datasets including multi-threaded code. In this work, the authors have proposed a framework for identifying data races using Java as implementation language, Galois Chameleon Swarm Optimization Algorithms for identification of test cases, K-Means for efficient clustering process, Linear Scaling Gated Recurrent Unit for classification accuracy. The proposed model thrives to reduce false positives and false negatives identifying data races.



Keywords

Dynamic Data Race Detection, Machine Learning, Machine Learning, Deep Learning.

Cite as

Devesh Lowe and Mithilesh Kumar Dubey, "A Novel Framework for Java Based Data Race Detection using ECC-EVKM-BERT and SS-LSGRU with KL-FBIS", In: Chetan Sharma, Vaishali Maheshwari and Harish Sharma (eds), Advancements in Intelligent Systems, SCRS, India, 2025, pp. 17-23.
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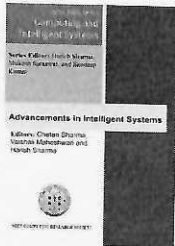
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Advancements in Intelligent Systems

A Novel Framework for Java Based Data Race Detection using ECC-EVKM-BERT and SS-LSGRU with KL-FBIS

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Abstract

When two or more threads visit a shared variable concurrently and at least one of those accesses is a write operation without the necessary synchronization mechanisms in place, it's known as a data race in multi-threaded algorithms. Unpredictable behavior, such as damaged data, software crashes, and inconsistent outputs, may result from this. Since data races can appear inconsistently based on thread scheduling and time, they are infamously hard to debug. Data races can have serious consequences, such as unstable software

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Digital Marketing ROI in the Era of Experience Economy: Evolving Methodologies and Unified Measurement Strategies

Rhytheema Dulbo (Hindustan Institute of Technology and Science, Chennai, India), Leena Jeneela (Hindustan Institute of Technology and Science, Chennai, India), Sachin Sabharwal (Jagan Institute of Management Studies, Delhi, India), Jagbir Singh Kadian (Manav Rachna University, Haryana, India), and Sameena Naaz (University of Roehampton, London, UK)

Source Title: Strategic Blueprints for AI-Driven Marketing in the Digital Era

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Abstract

This research examines the evolving landscape of digital marketing ROI measurement within the context of the Experience Economy, driven by increasing channel complexity and technological advancements. It traces the historical progression from basic metrics to sophisticated multi-touch attribution (MTA) and marketing mix modeling (MMM). Employing a multi-method approach, including literature review and expert interviews, the study identifies key challenges like privacy regulations and data integration, and explores emerging trends like AI-driven analytics. A hierarchical ROI framework (technical, operational, strategic) and temporal considerations, with a focus on measuring experiential value, are developed. Methodologies such as probabilistic path analysis and Bayesian models are evaluated for effectiveness. Ethical considerations regarding data privacy are also addressed. The findings provide actionable recommendations for optimizing digital marketing ROI, including the measurement of customer experiences through comprehensive and ethical measurement practices.

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Discrete Mathematics for Undergraduates

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About the Book

This book has been written for undergraduate students pursuing Discrete Mathematics as their subject. The book primarily aims at students preparing for BCA, Semester I examination conducted by GGSIP University. This book can also be used for similar courses in programs like B. Tech, B. Sc (CS), B. Sc (IT), and other equivalent programs of GGSIPU and other Indian universities. This book consists of ten chapters. All the chapters have been supplied by numerous solved examples and exercises along with their answers. The main objective of this book is to provide useful self-study material for the students. Clear diagrams have been drawn, text headings have been specified that helps students to grasp this subject easily. This will not only enhance students' understanding of the concepts discussed but will also prepare them for the examination.

Salient features:

1. The text matter is self-explanatory and the language is vivid and lucid.
2. To simplify the process of conceptual assimilation, problems have been segregated as LOTS (Lower Order Thinking Skills) and HOTS (Higher Order Thinking Skills).
3. Most of the questions conform to the trend questions appearing in GGSIPU.
4. Clear diagrams are provided in support of text.
5. Symbols with their meanings are provided for the help of students.

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3. Functions
4. Mathematical logic
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6. Permutations and Combinations
7. Binomial Theorem
8. Recurrence Relations
9. Graph theory
10. Paths and Circuits
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- End Term Examinations

About the Author

J.P. Singh is Professor in Department of Mathematics at Jagran Institute of Management Studies, Rohini (Affiliated to GGSIP University), Delhi. He has more than 21 years of teaching experience and has taught at various affiliated Institutes of GGSIP University. He has undergone rigorous training from IIT Delhi in Financial Mathematics. He is a Certified Six Sigma Green Belt from Indian Statistical Institute, Delhi.

He is a lifetime member of the Indian Mathematical Society and Ramanujan Mathematical Society. His areas of interest include Stochastic Process, Discrete Mathematics, Mathematical Statistics, Numerical Methods, Number Theory and Theory of Computation.



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Discrete Mathematics for Undergraduates

2nd
Edition



J.P. Singh



J.P. Singh

Applied Mathematics

About the Book

This book has been designed to provide an introduction to Applied Mathematics and is intended to be used by undergraduates in Mathematics, Computer applications and Engineering students of all Indian Universities. The present work is a by-product of my long association with teaching Applied Mathematics at various I.T. and Engineering institutes of Guru Gobind Singh Indraprastha University, Delhi. This book contains numerous examples that illustrate the basic as well as high level concepts of the concerned topics. Different concepts have been explained in a very lucid language with the help of various solved examples that would help the students to understand the subject matter without further reference. The solved problems are interspersed throughout the text at places where they naturally arise, making the book ideal for self-study.

Contents

Elementary concepts 1. Probability-I 2. Probability-II 3. Random Variable and Mathematical Expectations 4. Discrete Probability Distributions 5. Normal Distribution 6. Finite difference 7. Interpolation 8. Solution of Algebraic and Transcendental equations 9. Solution of linear Simultaneous equations 10. Numerical Differentiation and Integration 11. Linear Programming: Formulation 12. Linear Programming: Graphical Method 13. The Simplex Method 14. Transportation Problem 15 Assignment Problem

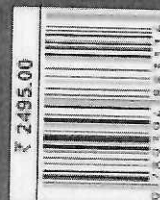
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J.P. Singh is Professor in the Department of Mathematics at Jagan Institute of Management Studies (Affiliated to GGSIP University), Delhi. He has over 22 years of teaching experience in Operations Research, Discrete Mathematics, Numerical Methods, Mathematical Statistics and Calculus. He has taught at various affiliated institutes of GGSIPU. He has undergone rigorous training from IIT Delhi in Financial Mathematics. He is a certified Six Sigma Green belt from Indian Statistical Institute, Delhi. He is a lifetime member of the Indian Mathematical Society and Ramanujan Mathematical Society. His areas of interest include Operations Research, Mathematical Statistics, Stochastic Process, Numerical Methods, Number Theory, Discrete Mathematics and Theory of Computation.



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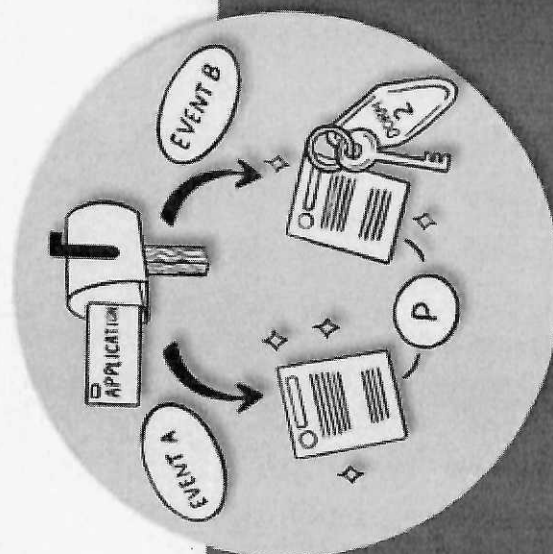
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