Machine Learning and Applied Network Technologies (ICMLANT), IEEE International Conference on

2024 IEEE International Conference on Machine Learning and Applied Network Technologies (ICMLANT) DOI: 10.1109/ICMLANT63295.2024
12-13 Dec. 2024

Showing **1-25** of **31**

Subrata Chowdhury; Sandip Mukherjee; Aditya Kumar Pathak; Diep Can Duc
Publication Year: 2024 , Page(s): 13 - 19
Cited by: Papers (1)

Abstract HTML

This investigation explores student expectations and perceptions regarding higher education institutions, focusing on aligning professional programs with student career aspirations. The study evaluates how effectively academic institutions understand and meet training needs essential for student success in professional fields. Students were categorized using the Iterative Dichotomiser 3 methodolog... Show More

Deep Convolutional Neural Networks Structured Pruning via Gravity Regularization
Abdesselam Ferdi
Publication Year: 2024 , Page(s): 20 - 25
Cited by: Papers (1)

Abstract HTML

Comprehensive Overview of CBB Detection Technologies and Image Database Development
Kevin Quintanilla-Castro; Robin Meza-Molina; Yakdiel Rodriguez-Gallo; Manuel Cardona; Jordi Cruz
Publication Year: 2024 , Page(s): 26 - 31

Abstract HTML

IELTS Writing Tasks Evaluation Using LLMs: A Comparative Study of ChatGPT, Claude, Copilot, and Google Gemini
Areeg Fahad Rasheed; Shimam Amer Chasib; Huda Najm Alabbas; M. Zarkoosh; Safa F. Abbas
Publication Year: 2024 , Page(s): 32 - 37

Abstract HTML

AScheme to Enhance the Employability of the Differently-Abled
Ralah Aaqil; Shyam P Joy
Publication Year: 2024 , Page(s): 38 - 43

Abstract HTML

Classification of Apple Growing Region by Vis-Near Infrared Spectroscopy Coupled with Machine Learning and Deep Learning Methods
Jordi Cruz Sanchez; Yakdíel Rodriguez Gallo; Maria Tarapoulouzi; Georgi Gergov; Krastena Nikolova; Manuel Cardona
Publication Year: 2024 , Page(s): 44 - 49

Abstract HTML

Oil Spill Segmentation Using Enhanced U-NET and Fuzzy System Hybrid
Shreya Ranjan; S. Babeetha; Prince Kumar
Publication Year: 2024 , Page(s): 50 - 55
Cited by: Papers (1)

Abstract HTML

AI -Driven Cryptographic Algorithm Identification: Exploring Methodologies and Practical Applications
Shivani Yadao; Nguyen Thi Dieu Linh; Areesha Fatima; Bhuvan Puri
Publication Year: 2024 , Page(s): 56 - 61

Cited by: Papers (1)

Abstract HTML

Detecting Irony in Arabic: From Emotion AI Recognition to Cognitive AI Functionality
Mageda A. A. Sharafeddin; Jad Raad; Tareq Ayoub
Publication Year: 2024 , Page(s): 62 - 67

Abstract HTML

Sentiment Analysis Using Machine Learning and Deep Learning Models
Hoang-Dieu Vu; Quang-Tu Pham; Vijender Kumar Solanki; Trong-Minh Hoang; Due-Tan Tran
Publication Year: 2024 , Page(s): 68 - 73
Cited by: Papers (1)

Abstract HTML

LLM Prompting Strategies in Automated Machine Learning
Israel Campero Jurado
Publication Year: 2024 , Page(s): 74 - 79

Abstract HTML

Forecasting Mutated Genome Sequences of Human Coronaviruses by Unveiling Genomic Mutations Leveraging the Seq2Seq Approach
Abdullah Hasan Sajjad Rafi; Arkadeep Das; Moumita Das; Arif Shakil
Publication Year: 2024 , Page(s): 80 - 84

Abstract HTML

Implementation of a Binary Reed-Solomon CODEC Using the Berlekamp-Massey Algorithm on FPGA
Thuan Van Le; Nam Van Dinh
Publication Year: 2024 , Page(s): 85 - 89
Cited by: Papers (2)

Abstract HTML

Non-Payload Based 5G Attack Detection with Qualitative Hybrid Feature Engineering
Rahul Kale; Kar Wai Fok; Vrizlynn L. L. Thing
Publication Year: 2024 , Page(s): 90 - 95

Abstract HTML

Automated Protocol Reverse Engineering with Message Format Inference
Randolph Loh; Zhongmin Dai; Kar Wai Fok; Vrizlynn L. L. Thing
Publication Year: 2024 , Page(s): 96 - 101
Cited by: Papers (1)

Abstract HTML

Trimean Filtering for Accelerated Convergence in Ultrasound Tomography Using Diffraction-Based Imaging Technique
Luong Thi Theu; Tran Quang Huy; Gloria Jeanette Rincón Aponte; Duc-Tan Tran
Publication Year: 2024 , Page(s): 102 - 107

Abstract HTML

RTPD-YOLO: Reconciling YoLo-V8 Model for Real-Time Potholes Detection

Sivadi Balakrishna; Vijender Kumar Solanki
Publication Year: 2024 , Page(s): 108 - 113
Cited by: Papers (1)

Abstract HTML

Integration of Mechanisms for Video Distribution Between Clusters in a Hierarchical P2P Architecture
Francisco De Asis Lopez-Fuentes
Publication Year: 2024 , Page(s): 114 - 119

Abstract HTML

1 2 >

The Iterative Dichotomiser 3 Method Improves Soft Skills Training Decisions Using Survey Data

Publisher: IEEE

Cite This PDF

Subir Gupta ; Quang-Trung Hoang ; Bhaswati Roy ; Subrata Chowdhury ; Sandip Mukherjee ; Aditya Kumar Pathak All Authors

Abstract:
This investigation explores student expectations and perceptions regarding higher education institutions, focusing on aligning professional programs with student career aspirations. The study evaluates how effectively academic institutions understand and meet training needs essential for student success in professional fields. Students were categorized using the Iterative Dichotomiser 3 methodology to forecast their training requirements. Analytical tools such as the confusion matrix and the ROC curve assessed the precision of these predictions. The results show a specificity rate of 74.1 %, a sensitivity of 78.6%, and an overall accuracy of 76.7%. The combined sensitivity and specificity score is 3.527, and the empirical area under the ROC curve is 0.76, suggesting the model's reasonable efficacy. The findings indicate a significant student demand for enhanced instruction in soft skills, underscoring the need for educational institutions to adapt their curricula to better prepare students for professional challenges.

Published in: 2024 IEEE International Conference on Machine Learning and Applied Network Technologies (ICMLANT)

Date of Conference: 12-13 December 2024

DOI: 10.1109/ICMLANT63295.2024.00008

Date Added to IEEE *Xplore*: 05 March 2025

Publisher: IEEE

ISBN Information:
Electronic ISBN:979-8-3503-8918-0
Print on Demand(PoD) ISBN:979-8-3503-8919-7

Conference Location: San Salvador, El Salvador

I. Introduction

The foundational years of a student's education are critically influential, shaping individual futures and determining the quality of a nation's workforce, which drives economic growth and wealth creation [1] [2]. Developing skills during these early years is essential, providing a robust basis for future educational and societal contributions. Education, therefore, is a powerful tool for fostering equity by potentially minimizing the effects of socioeconomic disparities on academic performance. Traditionally, research focused on the impact of quantitative inputs like teacher quality and school resources on student outcomes, typically measured by standardized test scores. These studies, however, often overlook the broad[e] [emp]hasizing cognitive skills such as I.Q. while neglecting non-cognitive skills such as resilience, self-reliance, and determination [3]. Despite the critical role these non-cognitive or “soft” skills play in academic and workplace success, they have historically been under-prioritized in educational policies, primarily due to the challenges associated with measuring such skills. This oversight can lead to significant gaps in student development, as these soft skills are crucial for personal growth

Authors

Subir Gupta
Dept. of CSE(AIML), Haldia Institute of Technology, West Bengal, India

Quang-Trung Hoang
Faculty of Electrical and Electronic Engineering, Phenikaa University, Hanoi, Vietnam

Bhaswati Roy
Dept. of FMS, Dr.B.C.Roy Engineering College, Durgapur, WB, India

Subrata Chowdhury

Dept. of Computer Science and Machine Learning, Sreenivasa Inst. of Technology and Management Studies, Chittoor, Andhra Pradesh, India

Sandip Mukherjee
Dept. of FMS, Dr.B.C.Roy Engineering College, Durgapur, WB, India

Aditya Kumar Pathak
Dept. of IT, Haldia Institute of Technology, West Bengal, India

Diep Can Duc
Electric Power University, Hanoi, Vietnam

Figures

References

Citations

Keywords

Metrics