28th June(Saturday)

Reporting at registration help desk(9:00 to 10:30)

Hi Tea

Venue: Mechi Hall

Time: 9:00 to 10:30

Inaugural function

Venue: Koshi Hall

Time: 10:30 to 12:00

Chairing Ceremony

National anthem

Panas Lighting

Welcome speech

ICRTAI Speech

Address #1

Address #2

Address #3

Address #4

Address by Conference Chair (Academic)

Address by Chief Patron

Vote of Thanks

Special Plenary Session-I

Venue Koshi hall

Time:12:00 to 13:30

Keynote 1 (12:00 to 12:20)

USE OF AI AND ML FOR SUSTAINABLE DEVELOPMENT

Prof. Dr. JK Mandal

Keynote 2 (12:25 to 12:45)

HYPE AND REALITY OF AI AND NATIONAL DEVELOPMENT

Prof. Dr. Manish Pokhrel

Keynote 3 (12:50 to 13:10)

IMPACT OF AI IN RESEARCH AND ACADEMICS

Prof. Dr. Sudhan Jha

Presentation I (13:15 to 13:30)

Dr. Jitendra Parajuli

Keynote 4 (13:35 to 13:55)

AI IN HEALTHCARE AND THE FUTURE OF NEUROSURGERY

Dr. Roshan Khatiwada

Lunch will be served in the Mechi hall from 14:00 onwards.

Technical Session 1

Time: 14:00 to 16:30

Venue Koshi hall

1. ICRTAI-12

UNUSUAL ACTIVITY DETECTION WITH ALERT SYSTEM USING VISION TRANSFORMER

Ocean Sitaula, Pravin Sangroula, Prabesh Sharma, Pukar Karki, Shailesh Devkota, Suchita Kri. Sah

2. ICRTAI-13

A SEMANTIC RETRIEVAL AND GENERATION FRAMEWORK FOR ALUMNI INTELLIGENCE USING LLAMA 3

Bipin Acharya, Sudip Koirala, Rajina Chaudhari, Krishna Gautam, Bishwas Pokharel

3. ICRTAI-14

BEYOND ACCURACY AND CLASSIFICATION: XAI-DRIVEN INTERPRETABILITY IN CERVICAL CANCER

Saugat Kafle, Prakash Paudel, Mohan Bhandari

4. ICRTAI-15

TOWARDS STANDARDIZED TAX REPORTING: LEVERAGING BUSINESS ANALYTICS IN THE INLAND REVENUE DEPARTMENT

Chudamani Dhungana, Gajendra Sharma, Bishwas Pokharel, Sushila Kumari Baral

5. ICRTAI-31

DOCUMENT VERIFICATION SYSTEM USING TROCR AND RESNET-50 VERIFICATION SYSTEM USING TROCR AND RESNET-50

Aachal Tiwari, Arpan Neupane, Ganesh Chaudhary, Sonam Chaudhary

6. ICRTAI-34

SKIN CANCER CLASSIFICATION USING TRANSFER LEARNING WITH MOBILE ONE: A DEEP LEARNING APPROACH

Dilli Hang Rai, Sabin Kafley, Om Prakash Dhakal

7. ICRTAI-35

DEVELOPING A NEPALI LLM BASED ON A NATIVE DATASET

Bijaya Sharma, Sulav Bhandari, Yunesh Shrestha, Nishant Bhattarai

8. ICRTAI-36

MACHINE LEARNING BASED CROP YIELD PREDICTION USING METEOROLOGICAL DATA IN NEPAL.

Pratik Ghimire

9. ICRTAI-40

DEEP LEARNING APPROACH FOR DETECTING DRIVER DROWSINESS IN REAL TIME Shashi Puri, Sabina Thapa, Kapil Kunwar

10. ICRTAI-43

MODELING NEPAL'S AI READINESS: A SIMULATION-BASED REGIONAL (SAARC) ANALYSIS OF GLOBAL RANKINGS AND POLICY IMPACTS (2021–2027)

Newton Shahi Thakuri, B.D Acharya

11. ICRTAI-45

COMPARATIVE EVALUATION OF CONVOLUTIONAL NEURAL NETWORKS: KIDNEY ABNORMALITY DETECTION IN CT SCANS WITH TRANSFER LEARNING AND ADVANCED OPTIMIZATION

Bishwa Kiran Poudel

12. ICRTAI-50

A SURVEY ON THE ADVANCEMENTS OF SPEECH TECHNOLOGIES FOR THE NEPALI LANGUAGE

Binayak Karki, Bhaskar Rijal, Anmol Guragain

13. ICRTAI-54

PREDICTIVE WATER USAGE OPTIMIZATION WITH IOT AND REGRESSION MODELS Yuyutshu Banjara, Dhiraj KC

Special Plenary Session-II

Venue Koshi hall

Time: 16:30 to 18:00

Keynote 5 (16:30 to 16:50)

ADVANCING DIGITAL TRANSFORMATION IN AGRITECH: A FOCUS ON NEPAL Dr. Ritu Raj Lamsal

Keynote 6 (16:55 to 17:15)

POSSIBILITY OF USING AI IN NEPALI AGRICULTURE

Dr. Umesh Acharya

Keynote 7 (17:20 to 17:40)

AI FOR ACCELERATING SUSTAINABLE DEVELOPMENT GOALS AND BEYOND

Assoc. Prof. Dr. Prajal Pradhan

Online Technical Session-I

Venue Munal Hall

Time: 14:00 to 16:30

ICRTAI-61	POTENTIAL OF BLOCKCHAIN	Er. Nitin Bhagat	June 28, 14:00
ICRTAI-17	TECHNICAL CHALLENGES OF ENCRYPTION IN MOBILE FORENSICS	Er. Mukesh Tiwari	June 28, 14:15
ICRTAI-33	A DESIGN OF IOT-BASED MONITORING SYSTEM FOR INTELLIGENT MEAT QUALITY IN VYAS MUNICIPALITY, NEPAL	Deepak Pantha, Sunil Poudel Dr. Roshan Koju	June 28, 14:30
ICRTAI-41	SABDHAMANTHAN: EMBEDDING MODEL IN NEPALI LANGUAGE	Rupak Neupane Srijan Gyawali Sarjyant Shrestha Manish Pyakurel	June 28, 14:45
ICRTAI-44	INTELLI-DOCS: AI-POWERED PERSONAL DOCUMENT ASSISTANT, SIMPLIFIED MANAGEMENT AND RETRIEVAL OF PERSONAL RECORDS	Kritika Thapa Prashant Bhattarai Roshan Chaudhary Saurab Baral	June 28, 15:00
ICRTAI-48	DETECTION OF PARKINSON'S DISEASE USING DEEP LEARNING	Chirag Khatiwada	June 28, 15:15
ICRTAI-51	AUTOMATING DOCUMENT WORKFLOWS WITH RESNET-50 AND TEMPLATE-BASED OCR	Srijan Gyawali Rupak Neupane Sarjyant Shrestha Manish Pyakurel	June 28, 15:30
ICRTAI-53	KINEMATIC WORKSPACE EVALUATION OF A DELTA PARALLEL MECHANISM CONSIDERING THE INFLUENCE OF ARM LENGTH	N. Bhetwal A. Bimal P. Timsina, N. Ghimire, U. Dahal S. Sapkota	June 28, 15:45
ICRTAI-55	IMAGE STEGANALYSIS USING ENSEMBLE CLASSIFIER	Sachin Koirala Sajal Poudel Unique Shrestha Utsav Chandra Kayastha	June 28, 16:00
ICRTAI-56	LIP READING USING CONVOLUTIONAL NEURAL NETWORKS	Chirag Khatiwada, Bishesh Pokharel, Mahim Rawal Rowel Maharjan	June 28, 16:15

^{1&}lt;sup>st</sup> International Conference on Recent Trends in Artificial Intelligence(ICRTAI 2025)

	ADVANCING OFFLINE SIGNATURE	Surendra Basnet,	
ICRTAI-57	VERIFICATION WITH BIDIRECTIONAL	Deeyo Ranjan Dongol,	
	SIAMESE DEEP LEARNING	Surendra Shrestha	June 28, 16:30

29th June(Sunday)

Hi Tea

Venue Mechi Hall

Time: 7:00 to 8:00

Special Plenary Session-I

Venue Koshi hall

Time: 8:00 to 10:00

Keynote 8 (8:00 to 8:20) Dr. Mahashweta Sarkar

Keynote 9 (8:25 to 8:45) Dr. Sanju Kr. Singh

Keynote 10 (8:50 to 9:10) Dr. Arjun Singh Saud

Keynote 11 (9:15 to 9:35)

Er. Pravin Regmi

Keynote 12 (9:40 to 10:00)

SCOPE AND SIGNIFICANCE OF AI IN THE EDUCATION SECTOR IN THE CONTEXT OF NEPAL

Dr. Gajendra Sharma

Grand Panel Discussion

Venue: Koshi Hall

Moderator: Dr. Bhoj Raj Ghimire

Time: 10:00 to 11:00

Expert Session

Venue: Koshi Hall

Time: 11:00 to 11:30

Project Demonstration

Venue: Mechi Hall

Time:11:00 onwards

Technical Session 2

Venue: Koshi Hall

Time:11:00 to 13:30

1. ICRTAI-16

COMPARATIVE ANALYSIS OF SEVERITY OF COVID-19 PNEUMONIA

Sushant Bhattarai

2. ICRTAI-32

LEGAL CHATBOT FOR GENDER BASED VIOLENCE USING FINE-TUNED LLM AND RAG Anurag Sharma, Pratyush Panta

3. ICRTAI-37

LAND COVER SEGMENTATION FROM SATELLITE IMAGERY USING U-NET Yamrai Khadka

4. ICRTAI-39

IMAGE COLORIZATION VIA CGANS USING RESNET-18 BACKED U-NET ARCHITECTURE
Subash Yadav

5. ICRTAI-42

ACCESSIBILITY ASSISTANT USING FINE-TUNED LLM

Aayush Nepal, Awish Regmi

6. ICRTAI-46

AI FACIAL ANALYSIS AND SKINCARE ADVISOR USING COMPUTER VISION AND MACHINE LEARNING

Aayush Kumar Singh

7. ICRTAI-47

THE EMERGING POTENTIAL OF AGENTIC AI IN EDUCATION: EXPLORING ADAPTIVE AUTONOMY, GOAL-DRIVEN LEARNING, AND FUTURE PEDAGOGICAL IMPLICATIONS Gaurab Dahal. Pritika Basnet

8. ICRTAI-49

PRIVACY-PRESERVING MACHINE LEARNING THROUGH SELECTIVE UNLEARNING Dipesh Acharya

9. ICRTAI-59

STREAM-BASED MACHINE LEARNING ALGORITHMS FOR CONTINUOUS DATA PROCESSING

Dr. Gopal Prasad Sharma

Presentation II

Prof. Dr. Devendra Kr. Adhikari

Lunch will be served in the Restaurant from 13:00 onwards.

Closing Session

Venue: Koshi Hall

Time: 14:00 to 15:00

Online Technical Session-II

Venue: Munal Hall

Time: 09:00 to 12:15

ID	TITLE	Author	Date and Time
ICRTAI-18	SECURITY CHALLENGES IN IOT FOR THE EDUCATION SECTOR	Samniwa Angdembe	June 29, 9:00
ICRTAI-19	RECENT ADVANCES IN AI-DRIVEN CYBERSECURITY: TACKLING PROMPT INJECTION ATTACKS	Er. Saroj Ghimire	June 29, 9:15
ICRTAI-20	ENHANCING HANDWRITTEN TEXT RECOGNITION PERFORMANCE WITH ENCODER TRANSFORMER MODELS	Dipesh Bhattarai	June 29, 9:30
ICRTAI-21	DEVELOPMENT AND EVALUATION OF MOBILE TOUCH-BASED USER INTERFACE PROTOTYPE FOR ELDERLY USERS	Manoj Bhattarai	June 29, 9:45
ICRTAI-22	PASSWORD HABITS OF UNIVERSITY STUDENTS	Shayana Manandhar	June 29, 10:00
ICRTAI-23	LITERACY GAP IN SHARE MARKET: BUY AND SELL	Deepa Shrestha	June 29, 10:15
ICRTAI-24	EXPLAINABLE AI IN CYBERSECURITY: CATALYZING CLEAR MODELS FOR MALWARE AND INTRUSION DETECTION	Dipak Adhikari Suman Thapaliya	June 29, 10:30
ICRTAI-25	A NOVEL APPROACH TO SELF-TUNING DATABASE SYSTEMS USING REINFORCEMENT LEARNING TECHNIQUES	Sushil Bhattarai	June 29, 10:45
ICRTAI-26	RECENT ADVANCES IN AI FOR INCLUSIVE WEB DESIGN: A PERFORMANCE-OPTIMIZED FRAMEWORK FOR REAL-TIME ACCESSIBILITY ADAPTATIONS FOR NEURODIVERGENT USERS	Ashish Gautam	June 29, 11:00
ICRTAI-27	A CROSS-SECTOR APPROACH TO PROACTIVE BREACH DETECTION AND ADAPTIVE DEFENSE	Ravi Chandra Gurung	June 29, 11:15
ICRTAI-28	ETHICAL AND EXPLAINABLE ARTIFICIAL INTELLIGENCE (XAI) IN EDUCATION SYSTEMS	Rupak Gadtaula	June 29, 11:30
ICRTAI-29	DEEP LEARNING FOR MALWARE ANALYSIS AND NETWORK ANOMALY DETECTION	Saroj Dhital	June 29, 11:45
ICRTAI-30	AI-AUGMENTED THREAT INTELLIGENCE: ENHANCING SITUATIONAL AWARENESS IN CYBERSECURITY	Rageena Shrestha	June 29, 12:00
ICRTAI-52	LEVERAGING AI-POWERED SENTIMENT ANALYSIS IN EDUCATIONAL DECISION-MAKING PROCESSES	Bigyan Pandey	June 29, 12:15

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