



DEPARTMENT OF INFORMATION TECHNOLOGY

MONTHLY NEWSLETTER

OCTOBER -2023

Volume 5 Issue 2

FACULTY ACHIEVEMENT HIGHLIGHTS

Mr. Mani Deepak Choudhry, Assistant Professor, Information Technology, KGiSL Institute of Technology, successfully completed two faculty development programmes:

- Participated in the **21-day International FDP on “Data Science Tools”** organized by the Department of CSE, SRM Institute of Science and Technology, Tiruchirappalli Campus, held from **12.07.2023 to 01.08.2023**.
- Attended the **Seven-Day International Virtual FDP on “Research Insights for Academic Excellence”** conducted by the Department of Mathematics, KPR College of Arts Science and Research, Coimbatore, from **3rd to 8th August 2023**.

KGiSL Institute of Technology

Department of Information Technology & KITE - Institution's Innovation Council jointly organizes

5 Aug 2023, 10.30 AM
Venue - CDIO HALL

QUARTER 3 SELF DRIVEN ACTIVITY

Guest Lecture on Game Development

RESOURCE PERSON
S Jerry Wilson
Founder, Luminous Rose

Mr. R. Anbarasan
Event Coordinator

Dr. N. Sankar Ram
Head Of the Department

KITE TechCollege
kgkite.ac.in



Guest Lecture on Game Development

The Department of Information Technology, in collaboration with KITE – Institution's Innovation Council, organized a Quarter 3 Self-Driven Activity featuring a guest lecture by **Mr. S Jerry Wilson**, Founder of Luminous Rose. Held on **5 August 2023 at 10:30 AM** in the **CDIO Hall**, the session offered students valuable insights into the evolving landscape of game development and entrepreneurial innovation.

Coordinator: Mr. R. Anbarasan

HoD: Dr. N. Sankar Ram



(12) PATENT APPLICATION PUBLICATION	(21) Application No.202341052784 A
(19) INDIA	
(22) Date of filing of Application : 07/08/2023	(43) Publication Date : 01/09/2023
(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACHES FOR FAKE NEWS DETECTION IN SOCIAL MEDIA	
(71) Name of Applicant :	
(72) Name of Inventor :	
(86) International Application No:	CA20230100000, G06T0072/000
(88) International Application No:	61/11900
(87) Name of Publication No:	NA
(88) Name of Addressee to Application Number:	NA
(89) Filing Date:	NA
(42) Divisional or Application Number:	NA
(43) Filing Date:	NA
(73) Address:	ARTIFICIAL INTELLIGENCE BASED APPROACHES FOR FAKE NEWS DETECTION IN SOCIAL MEDIA A method for the technical field of fake news identification, and in specifically pertains to a fake news detection method based on a pseudo twin network, wherein the method mainly consists of a feature extraction and a matching network, and the technique includes the following specific steps: For input news data, entering text data and picture data into matching feature extractors, and extracting features from two levels of words and images; The text and picture features are fed into a matching network, which then maps them into two levels of words and images; The matching network outputs the final output; The output of the matching network is then converted into a sequence of tokens; The sequence of tokens is then converted into a sequence of tokens using at least one of a number of predetermined sequence transformations. The sequence analysis is then taught to predict after the transformation that was used to produce such input token sequence. FIG. 1
No. of Pages : 14 No. of Claims : 1	

We are proud to announce that **Mr. Rajasekaran Selvaraj**, Department of Information Technology, KGiSL Institute of Technology, is listed as a co-inventor in the Indian patent titled “*Structural and Technical User Rendered Digital Assistant Entity (SATURDAE)*” (Application No. 202341038832 A, published on 08 September 2023).

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202441005429 A
(19) INDIA	
(22) Date of filing of Application : 26/01/2024	(43) Publication Date : 09/02/2024
(54) Title of the invention : IoT-ENABLED REMOTE PATIENT MONITORING SYSTEM WITH AI-POWERED PREDICTIVE ANALYTICS	
(71) Name of Applicant :	
(72) Name of Inventor :	
(86) International Application No:	NA
(87) Filing Date:	NA
(88) International Publication No:	NA
(89) Name of Inventor :	Dr. N. Sankar Ram, KGiSL Institute of Technology
(90) Name of Inventor :	Dr. R. Kalyan, St. Peter's Engineering College, Hyderabad
(91) Name of Inventor :	Mr. C Vijayaraj, Kommuri Pratap Reddy Institute of Technology
(51) International classification	A61B009/00000, G16B0040670000, G16B0010600000, A61B005/00000, A61B005/05050
(86) International Application No:	NA
(87) Filing Date:	NA
(88) International Publication No:	NA
(89) Name of Inventor :	Mr. C Vijayaraj, Kommuri Pratap Reddy Institute of Technology
(90) Name of Inventor :	Dr. N. Sankar Ram, KGiSL Institute of Technology
(91) Name of Inventor :	Dr. R. Kalyan, St. Peter's Engineering College, Hyderabad
(57) Abstract :	AI is becoming more common in modern. Remote patient monitoring (RPM) a common healthcare application, benefits chronic or acute patients, elderly patients, and hospital patients. The related art of remote patient monitoring system is a complex system to time management and workflow. Traditional patient monitoring involves direct skin contact to collect health data. This paper discusses the merits and limitations of patient-centric RPM systems that use cloud, fog, edge, and blockchain technologies to enable Internet-connected wearable devices. RPM uses AI to categorize P.A., track C Diff. symptoms, and monitor vital signs in emergencies. This review found that AI-enabled RPM architectures have revolutionized healthcare monitoring applications by detecting health deterioration early, customizing health parameter monitoring via federated learning, and learning about human behavior patterns via reinforcement learning
No. of Pages : 9 No. of Claims : 3	

PATENT PUBLICATION RECOGNITION – KGiSL INNOVATORS

We are delighted to announce that faculty members from **KGiSL Institute of Technology** have been listed as co-inventors in the Indian patent titled “*Artificial Intelligence Based Approaches for Fake News Detection in Social Media*” (Application No. 202341052784 A, published on 01 September 2023).

👉 The contributors from KGiSL are:

- **Dr. P. Rajkumar**, Head, CSBS
- **Ms. Ananthi M**, Associate Professor, Information Technology
- **Ms. Shirley Josephine Mary R**, Assistant Professor, Information Technology

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202341038032 A
(19) INDIA	
(22) Date of filing of Application : 30/06/2023	(43) Publication Date : 08/09/2023
(54) Title of the invention : STRUCTURAL AND TECHNICAL USER RENDERED DIGITAL ASSISTANT ENTITY (SATURDAE)	
(71) Name of Applicant :	
(72) Name of Inventor :	
(86) International Application No:	CA20230100000, G06T0072/000
(87) Name of Publication No:	NA
(88) Name of Addressee to Application Number:	NA
(89) Filing Date:	NA
(42) Divisional or Application Number:	NA
(43) Filing Date:	NA
(73) Address:	STRUCTURAL AND TECHNICAL USER RENDERED DIGITAL ASSISTANT ENTITY (SATURDAE) A method for the technical field of digital assistant entities, and in specifically pertains to a digital assistant entity for a user, wherein the method mainly consists of a feature extraction and a matching network, and the technique includes the following specific steps: For input news data, entering text data and picture data into matching feature extractors, and extracting features from two levels of words and images; The text and picture features are fed into a matching network, which then maps them into two levels of words and images; The matching network outputs the final output; The output of the matching network is then converted into a sequence of tokens; The sequence of tokens is then converted into a sequence of tokens using at least one of a number of predetermined sequence transformations. The sequence analysis is then taught to predict after the transformation that was used to produce such input token sequence. FIG. 1
No. of Pages : 13 No. of Claims : 4	

We are proud to announce that **Dr. N. Sankar Ram**, Professor and Head of Information Technology, KGiSL Institute of Technology, is listed as a co-inventor in the Indian patent titled “*IoT-Enabled Remote Patient Monitoring System with AI-Powered Predictive Analytics*” (Application No. 202441005429 A, published on 09 February 2024).



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SKILL DEVELOPMENT SPOTLIGHT

We proudly recognize **Mani Deepak Choudhry AP/IT** for successfully completing two distinguished certifications in Python programming and data encryption:



PYTHON PROGRAMMING COURSE

Certified by **GUVI** (Google for Education Partner, ISO 9001:27001), this course was completed on **August 13, 2023**, demonstrating proficiency in foundational and applied Python skills.

Encryption with Python: Encrypt Data with Key Pairs Completed on **September 15, 2023**, this Coursera Project Network certification, led by Subject Matter Expert **David Dalsveen** from Freedom Learning Group, showcases expertise in secure data handling using Python-based encryption techniques.

Faculty Editor

Ms. Shirley Josephine Mary R AP/IT

Student Editor

Ms. Kanishka, IV IT