(12) PATENT APPLICATION PUBLICATION

(21) Application No.20244I021733 A

(19) INDIA

(22) Date of filing of Application :21/03/2024

(43) Publication Date : 29/03/2024

(54) Title of the invention : METHOD AND SYSTEM FOR ACHIEVING SEMANTIC HARMONY THROUGH THE INTEGRATION OF KNOWLEDGE GRAPHS AND MACHINE LEARNING IN INTELLIGENT DATA DISCOVERY

(51) International classification :G06N0020000000, G06N0005020000, G06F0040300000, G06N0005040000, G06F0016350000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)CMR COLLEGE OF ENGINEERING & TECHNOLOGY Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA, 501401. Hyderabad ----------- ----------- 2)CMR TECHNICAL CAMPUS 3)CMR INSTITUTE OF TECHNOLOGY Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. L Chandra Sekhar Reddy Address of Applicant :Associate Professor Computer Science and Engineering DS CMR College of Engineering & Technology KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA, 501401 Hyderabad ----------- ----------- 2)Mr. B Suresh Ram Address of Applicant :Assistant Professor Computer Science and Engineering DS CMR College of Engineering & Technology KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA, 501401 Hyderabad ----------- ----------- 3)Mr. Parameswar Maddela Address of Applicant :Assistant Professor Computer Science and Engineering DS CMR College of Engineering & Technology KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA, 501401 Hyderabad ----------- ----------- 4)Sanjib Kumar Nayak Address of Applicant :Assistant Professor CMR TECHNICAL CAMPUS Computer Science and Engineering DS KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad ----------- ----------- 5)B Mohan Babu Address of Applicant :Assistant Professor CMR TECHNICAL CAMPUS Computer Science and Engineering DS KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad ----------- ----------- 6)M Praveen Address of Applicant :Assistant Professor CMR TECHNICAL CAMPUS Computer Science and Engineering DS KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad ----------- ----------- 7)G. Anitha Address of Applicant :Assistant Professor CMR Institute of Technology Computer Science and Engineering DS KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad ----------- ----------- 8)K. Swathi Address of Applicant :Assistant Professor CMR Institute of Technology Computer Science and Engineering DS KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad ----------- -----------

(57) Abstract :
METHOD AND SYSTEM FOR ACHIEVING SEMANTIC HARMONY THROUGH THE INTEGRATION OF KNOWLEDGE GRAPHS AND MACHINE LEARNING IN INTELLIGENT DATA DISCOVERY ABSTRACT The disclosed invention presents a method and system for achieving Semantic Harmony in the realm of intelligent data discovery by seamlessly integrating Knowledge Graphs and Machine Learning techniques. The method involves establishing and refining semantic relationships within Knowledge Graphs, utilizing machine learning to comprehend and adapt to these relationships. Through an iterative process, the system 100 analyzes data, employing contextual analysis to extract nuanced insights. The integration facilitates continuous improvement through updates to knowledge graphs and machine learning models based on user feedback and newly acquired data. The intelligent data discovery module 114 generates user-friendly visualizations and recommendations, enhancing decision-making. The invention not only harmonizes diverse data sources but also employs natural language processing for intuitive user interaction, marking a significant advancement in the field of intelligent data discovery. Fig. 1

No. of Pages : 20 No. of Claims : 10