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(54) Title of the invention : REAL-TIME ADAPTIVE DATA ORCHESTRATION FRAMEWORK FOR INTELLIGENT BUSINESS INSIGHTS AND DECISION OPTIMIZATION

<p>(51) International classification :G06N002000000, G06F0016250000, G06F0016280000, G06N0005025000, G06F0016245700</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)CMR Institute of Technology Address of Applicant :KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----</p> <p>2)CMR COLLEGE OF ENGINEERING & TECHNOLOGY 3)CMR TECHNICAL CAMPUS</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mrs B.Radhika Address of Applicant :Assistant Professor, Computer Science and Engineering (Data Science), CMR Institute of Technology, Kandlakoya, Medchal, Hyderabad, Telangana, India. 501401., Hyderabad -----</p> <p>2)Mrs V.Adi Lakshmi Address of Applicant :Assistant Professor, Computer Science and Engineering (Data Science), CMR Institute of Technology, Kandlakoya, Medchal, Hyderabad, Telangana, India. 501401., Hyderabad -----</p> <p>3)Mr P.Rajendran Address of Applicant :Assistant Professor, Computer Science and Engineering (Data Science), CMR Institute of Technology, Kandlakoya, Medchal, Hyderabad, Telangana, India. 501401., Hyderabad -----</p> <p>4)Mrs. Vasavi kasa Address of Applicant :Associate Professor, Information Technology, CMR College of Engineering & Technology Hyderabad -----</p> <p>5)Mrs. Swathi Kaparti Address of Applicant :Assistant Professor, Computer Science and Engineering, CMR College of Engineering & Technology Hyderabad -----</p> <p>6)Mr. Eleswara Rao Naragani Address of Applicant :Assistant Professor, Computer Science and Engineering, CMR College of Engineering & Technology Hyderabad -----</p> <p>7)Tabeem Fathima Address of Applicant :Asst. Prof., Computer Science and Engineering (Data Science), CMR Technical Campus Hyderabad -----</p> <p>8)B Chandana Address of Applicant :Asst. Prof., Computer Science and Engineering (Data Science), CMR Technical Campus Hyderabad -----</p>
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(57) Abstract :
REAL-TIME ADAPTIVE DATA ORCHESTRATION FRAMEWORK FOR INTELLIGENT BUSINESS INSIGHTS AND DECISION OPTIMIZATION
ABSTRACT The invention provides a real-time adaptive data orchestration framework 100 designed for intelligent business insights and decision optimization. The framework comprises a data ingestion module 110 for collecting and preprocessing data from diverse sources, a dynamic data integration layer 112 that adaptively harmonizes data based on contextual and temporal factors, and a machine learning analytics engine 114 that applies real-time adaptive algorithms to generate actionable insights. The decision optimization module 116 leverages these insights to enhance decision-making processes. Additionally, a user interface 118 presents the insights and decisions in an accessible format, while a feedback loop mechanism 120 continuously refines the orchestration processes based on user feedback and performance metrics. This framework enables dynamic and informed decision-making through real-time data integration and adaptive learning techniques.

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