

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441102919 A

(19) INDIA

(22) Date of filing of Application :25/12/2024

(43) Publication Date : 03/01/2025

(54) Title of the invention : CLOUD-BASED DATA LAKE FOR BIG DATA ANALYTICS

(51) International classification :G06N0020000000, G06F0016250000, G06F0016245300, G06F0016242000, G06F0016280000

(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

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(57) Abstract :
 CLOUD-BASED DATA LAKE FOR BIG DATA ANALYTICS [029] The present invention relates to a Cloud-Based Data Lake for Big Data Analytics. The present invention comprises ingesting large volumes of raw, unprocessed data from multiple external sources into the cloud-based data lake, storing the data in a cloud-based storage module, where the data is stored in various formats, including structured, semi-structured, and unstructured data, processing the data using a distributed processing module in the cloud, performing tasks such as data cleaning, transformation, and enrichment, analysing the processed data using an analytics module, which applies machine learning and artificial intelligence techniques to extract insights, generating visual reports or dashboards based on the analysis to support decision-making and providing real-time access to the processed and analysed data for dynamic decision-making.
 Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 7