(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/11/2024

(21) Application No.202431094195 A

(43) Publication Date : 06/12/2024

(54) Title of the invention : Data analysis using machine learning on geo location data

(51) International classification	:G06N0020000000, G06F0016290000, G16H0050200000, G06V0020100000, G06Q0040080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
   1)SWAMI VIVEKANANDA UNIVERSITY
     Address of Applicant :Telinipara, Barasat - Barrackpore Rd,Bara Kanthalia, West Bengal – 700121 Barasat ----------- -----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
   1)Sukanya Dutta Ghosal
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY, Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat ----------- -----------

   2)Prof. Somsubhra Gupta
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY, Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat ----------- -----------

   3)Sangita Bose
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY, Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat ----------- -----------

   4)Sourav Saha
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY, Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat ----------- -----------

   5)Diganta Bhattacharyya
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY, Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat ----------- -----------

(57) Abstract :
The present invention relates to a system and method for analyzing geospatial data using machine learning algorithms. The system includes a data collection unit to gather geospatial data from multiple sources, a preprocessing unit to normalize and extract relevant features from the data, and a machine learning model to generate predictions based on the processed data. The system can provide real-time predictions and integrate various data sources for enhanced geospatial analysis. Additionally, the method includes steps for receiving, processing, and analyzing geospatial data to predict outcomes, which can be used in various applications such as urban planning, transportation, and environmental monitoring. The invention leverages machine learning techniques to improve prediction accuracy and enable data-driven decision-making.

No. of Pages : 17 No. of Claims : 10