

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 33/2024
ISSUE NO. 33/2024

शुक्रवार
FRIDAY

दिनांक: 16/08/2024
DATE: 16/08/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : A PREDICTIVE CRIME ANALYTICS AI MODELS FOR CRIME PATTERN RECOGNITION

<div>(51) International classification :G06N0020000000, G06Q0010060000, G06F0016248000, G06N0005040000, G06Q0050260000</div> <div>(86) International Application No :NA</div> <div>(87) International Publication No : NA</div> <div>(61) Patent of Addition to Application Number :NA</div> <div>(62) Divisional to Application Number :NA</div>		<div>(71)Name of Applicant : 1)Mr. Manish Address of Applicant :Research Scholar, Institute of Food Technology, Bundelkhand University Jhansi, Uttar Pradesh, India. Pin code- 284128 ----- 2)Mrs. Mahima Pandey 3)Ms. Sarika Gupta 4)Dr. Anubhav Dubey 5)Mrs. Archana Dongray 6)Mrs. Surabhi Rashi 7)Mr. Kamlesh Kumar 8)Mrs. Ankita Ghosh 9)Dr. Namrata 10)Mr. Dilip Kumar Chanchal Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Manish Address of Applicant :Research Scholar, Institute of Food Technology, Bundelkhand University Jhansi, Uttar Pradesh, India. Pin code- 284128 ----- 2)Mrs. Mahima Pandey Address of Applicant :Assistant Professor, College of Pharmacy, Gwalior Road, Ambabai, Jhansi, Uttar Pradesh, India. Pin code- 284419 ----- 3)Ms. Sarika Gupta Address of Applicant :Associate Professor, Agra Public College of Higher Education and Research Centre, Agra, Uttar Pradesh, India. Pin code- 282007 ----- 4)Dr. Anubhav Dubey Address of Applicant :Assistant Professor, Department of Pharmacology, Maharana Pratap College of Pharmacy, Kanpur, Uttar Pradesh, India. Pin code- 209217 ----- 5)Mrs. Archana Dongray Address of Applicant :Associate Professor, Saroj Institute of Technology and Management, Sultanpur-Lucknow Rd, Ahmamau, Uttar Pradesh, India. Pin code- 226021 ----- 6)Mrs. Surabhi Rashi Address of Applicant :Assistant Professor, B N College of Pharmacy, NH-24, Sitapur Road, Bakshi Ka talab, Lucknow, Uttar Pradesh, India. Pin code- 226201 ----- 7)Mr. Kamlesh Kumar Address of Applicant :Assistant Professor, College of Pharmacy, Gwalior Road Ambabai, Jhansi, Uttar Pradesh, India. Pin code- 284419 ----- 8)Mrs. Ankita Ghosh Address of Applicant :Assistant Professor, Saroj Institute of Technology and Management, Sultanpur-Lucknow Rd, Ahmamau, Uttar Pradesh, India. Pin code- 226021 ----- 9)Dr. Namrata Address of Applicant :Teaching Assistant, Institute of Food Technology, Bundelkhand University Jhansi, Uttar Pradesh, India. Pin code- 284128 ----- 10)Mr. Dilip Kumar Chanchal Address of Applicant :Associate Professor, College of Pharmacy, Gwalior Road Ambabai, Jhansi, Uttar Pradesh, India. Pin code- 284419 -----</div>
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(57) Abstract :
ABSTRACT The present invention relates to predictive crime analytics AI models for crime pattern recognition. The predictive crime analytics AI models for crime pattern recognition includes a data collection module that integrates diverse sources including crime reports, GIS data, social media, and demographic information. It includes a preprocessing module for cleaning and normalizing data, and a predictive modeling module that uses statistical, machine learning, and deep learning techniques to analyze historical crime data and forecast future incidents. The method involves collecting, integrating, and preprocessing data, training predictive models, and evaluating their performance. Deployed in real-time, the system offers continuous monitoring, integration with law enforcement databases, and actionable insights through intuitive visualization tools. This advanced approach enhances the ability of law enforcement agencies to proactively prevent crime and optimize resource allocation, addressing limitations of conventional methods and improving overall public safety and efficiency.