(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2025
(21) Application No.202511099696 A
(43) Publication Date : 05/12/2025

(54) Title of the invention : AN AI-POWERED FRAMEWORK FOR INTELLIGENT TRAFFIC JAM PREDICTION

(51) International classification	:G06N0003080000, G08G0001010000, G06N0003045000, G06N0020000000, G06Q0050400000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	: :01/01/1900
(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)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(72)**Name of Inventor :**
1)RAHUL KUMAR SHARMA
2)Dr. PREETI GERA

(57) Abstract :
The present invention discloses an AI-powered framework (100) for intelligent traffic jam prediction that integrates IoT data acquisition (101), cloud analytics (102), AI predictive modeling (103), rerouting mechanisms (104), and adaptive feedback loops (105). By leveraging deep learning architectures and real-time data streams, the system predicts congestion with high accuracy, enabling proactive traffic management and efficient rerouting. The invention enhances commuter satisfaction, reduces environmental impact, and provides scalable solutions for smart cities and transportation networks.

No. of Pages : 15 No. of Claims : 6