

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511100953 A

(19) INDIA

(22) Date of filing of Application :18/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : AN AI-POWERED MODEL FOR DETECTING DEPRESSION FROM SOCIAL MEDIA DATA

(51) International classification	:G06Q0050000000, H04L0009400000, G06N0003045000, G06V0020520000, G06N0020000000	(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
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(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

The present invention discloses an AI-powered model (101) for detecting depression from social media data (102). The system integrates a natural language processing module (103), computer vision module (104), behavioural analytics module (105), and social graph analysis engine (106). These multimodal components extract linguistic, visual, temporal, and social interaction features, which are analysed by a classification engine (107) to determine depression risk levels. Privacy-preserving techniques (108) ensure secure data handling. The invention enables early detection, ethical deployment, and seamless integration with mental health support systems (109).

No. of Pages : 14 No. of Claims : 6