

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202611039252 A

(19) INDIA

(22) Date of filing of Application :30/03/2026

(43) Publication Date : 08/05/2026

(54) Title of the invention : AN INTELLIGENT ACTIVE LEARNING PLATFORM FOR LABEL-EFFICIENT TRAINING

(51) International classification	:G06N 20/00, G06N 3/08, G06N 5/04, G06N 5/02, G06F 16/901	(71)Name of Applicant : <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)NEELAM</b>
(32) Priority Date	:NA	<b>2)SHWETA</b>
(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	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An intelligent active learning platform for label efficient training comprises a data ingestion engine (101), a representation generator (102), a sample scoring engine (103), an acquisition controller (104), an annotation workspace (105), a label quality manager (106), a training orchestrator (107), a performance evaluator (108), and a governance repository (109). Unlabeled samples are normalized, represented, prioritized using uncertainty and diversity criteria, routed for controlled annotation, validated for label quality, and committed to iterative retraining. The platform improves model development efficiency by reducing redundant labeling and by monitoring marginal gain per acquired annotation.

No. of Pages : 22 No. of Claims : 7