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(51) International classification	:G06N 20/00, G06N 5/04, G06F 11/07, G06N 5/02, G06N 7/00	(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
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(57) Abstract :

An autonomous model drift detection and correction system includes a data acquisition interface (101), a baseline state repository (102), a drift analytics engine (103), a causal diagnosis engine (104), a remediation planner (105), a correction executor (106), a validation controller (107), and a deployment governor (108). Live model observations are compared with stored baseline signatures to detect drift and generate severity outputs. Diagnosed causes drive selective corrective actions, including recalibration, feature correction, retraining, or rollback. Candidate corrections are validated and conditionally deployed through guarded promotion for restoring predictive reliability.

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