(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2025

(21) Application No.202511062886 A

(43) Publication Date : 18/07/2025

(54) Title of the invention : A DEVICE FOR AUTOMATED SOURCE CODE PLAGIARISM DETECTION AND REPORTING

(51) International classification :G06F9/44, G06F17/22
(86) International Application No :NA
Filing Date :NA
(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

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(57) Abstract :
A portable edge device (101) for automated source-code plagiarism detection integrates a tri-stage preprocessing pipeline (104), transformer-based semantic vectoriser (105), multi-factor similarity generator (106) and adaptive evaluator (107). Submissions ingested via USB-C (111) or wireless (112) are compared with local repositories (119). Exceeding threshold triggers a cryptographically signed report engine (118) within a secure element (110), ensuring verifiable audit trails. The device executes complete analysis in under 1.5 seconds per 500-line file while operating entirely on-premises, preserving confidentiality and accelerating academic or corporate code reviews.

No. of Pages : 16 No. of Claims : 5