

AssessMe: AI-Powered Tool for Assessing Programming Assignments and Ensuring Academic Integrity

1 The Challenge of Assessing Programming in the AI Era

- **Generative AI** enables effortless creation of **detection-proof code**.
- Traditional plagiarism tools **cannot** verify the **originality of students' work**.
- **AssessMe** shifts focus from **what** students submit to **how** they create it.

2 Objective

- Validate **learning metrics** through **real-time coding analysis**.
- Detect **authentic work** and identify **at-risk students**.
- Support fair, **data-driven assessment** and **academic integrity**

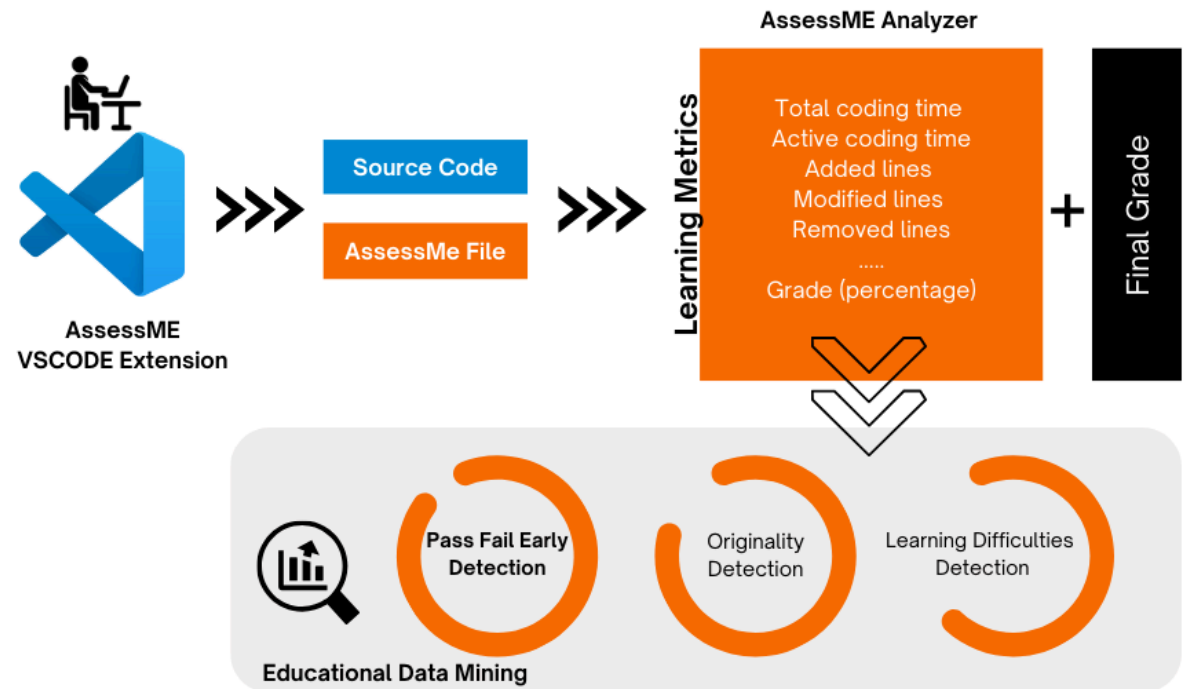
3 Solution: AssessMe

- AssessMe captures coding behavior through a VSCode extension that **records both the source code and activity data**.
- The Analyzer software processes this data to **generate learning metrics** to evaluate performance.
- Through **educational data mining**, **AssessMe detects early pass/fail trends**, verifies originality, and identifies learning difficulties.

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