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(57) Abstract :
The invention discloses an AI-powered system for detecting software development bottlenecks comprising a data ingestion module (101), preprocessing unit (102), AI engine (103), bottleneck predictor (104), recommendation generator (105), and visualization dashboard (106). The system monitors heterogeneous data streams, applies predictive analytics, and provides actionable recommendations. It enables proactive detection of bottlenecks, improves productivity, reduces costs, and enhances software quality. The invention integrates seamlessly with existing development tools, ensuring adoption across diverse software environments while reducing technical debt and optimizing delivery timelines.

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