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(51) International classification	:G06N 5/02, G06F 11/36, G06Q 10/06, G06F 9/455, G06Q 10/10	(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY 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 intelligent virtual assistant for developer productivity comprises a user interaction interface (101), a context acquisition engine (102), a session memory manager (103), a developer intent interpreter (104), a repository understanding engine (105), a task planning engine (106), a response generation engine (107), an action orchestration engine (108), a policy and access controller (109), and an analytics feedback engine (110). The system acquires project artifacts, derives task-specific intent, constructs repository-grounded knowledge, plans assistance workflows, generates developer-facing outputs, enforces access policies, and records outcome signals to improve coding, debugging, review, testing, and documentation productivity.

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