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(57) Abstract :

The invention discloses a computer model for predictive software development time estimation that integrates multiple modules, including Project Data Input (101), Preprocessing Unit (102), Feature Extraction (103), Predictive Algorithm Engine (104), Output Generator (105), Feedback Module (106), and Integration Interface (107). By leveraging machine learning and historical project data, the model generates accurate phase-wise and overall time estimates. The invention improves forecasting accuracy, adapts dynamically to changing requirements, and integrates seamlessly with project management tools, thereby reducing cost overruns and schedule delays.

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