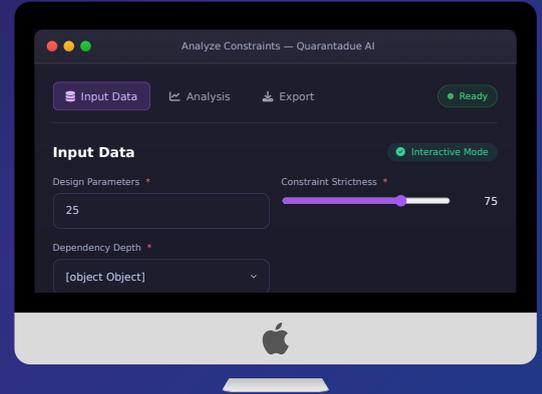


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We create AI models trained on 250M+ sci-papers. 96 Small Language Models (SLM) 100% focused on Design Development domain knowledge.



12 AI Suites · 96 AI Models · 288 AI MCP Tools Build From Specs

d Generative

AI-driven generative design and multi-objective optimization for architectural and engineering forms. This suite focuses on algorithmically exploring vast design spaces to produce high-performing options that meet defined constraints, balancing competing objectives like cost, energy, and aesthetics.

- 1 Parametric Constraint Solver AI
- 2 Form Finding Explorer AI
- 3 Spatial Layout Generator AI
- 4 Facade Pattern Optimizer AI
- 5 Multi Objective Design Evaluator AI
- 6 Generative Algorithm Orchestrator AI
- 7 Design Option Visualizer AI
- 8 Constraint Driven Refiner AI

d Structural

AI for structural engineering design, analysis, and optimization. This suite automates the generation of efficient structural systems, performs integrity checks, and optimizes material usage for safety, cost, and constructability.

- 9 Structural System Generator AI
- 10 Load Analysis Automation AI
- 11 FEA Accelerator AI
- 12 Topology Optimizer AI
- 13 Connection Designer AI
- 14 Code Compliance Checker AI
- 15 Material Optimizer AI
- 16 Constructability Analyzer AI

d Systems

AI for the design and coordination of Mechanical, Electrical, and Plumbing (MEP) systems. This suite automates routing, clash detection, and system sizing to ensure efficiency and compliance within spatial constraints.

- 17 Spatial Constraint Analyzer AI
- 18 HVAC Load Sizing AI
- 19 Hydraulic Plumbing Design AI
- 20 Electrical Distribution Modeler AI
- 21 Fire Protection Layout AI
- 22 Automated MEP Router AI
- 23 Multidisciplinary Clash Resolver AI
- 24 MEP Fabrication Detailing AI

d Performance

AI for simulating and predicting building performance across energy, thermal, daylight, and acoustic domains. This suite uses physics-informed models for rapid, high-fidelity analysis to guide design decisions.

- 25 Energy Modeling Core AI
- 26 Thermal Airflow CFD AI
- 27 Daylight Illuminance Analysis AI
- 28 Glare Prediction Control AI
- 29 Acoustic Simulation Core AI
- 30 Lifecycle Carbon Assessment AI
- 31 Physics Informed Surrogate Modeling AI
- 32 Performance Compliance Automation AI

d Compliance

AI for automated code checking and regulatory analysis. This suite parses complex building codes, standards, and zoning ordinances to verify design compliance and identify potential violations early in the process.

- 33 Code Parser AI
- 34 Zoning Analyzer AI
- 35 Egress Validator AI
- 36 Accessibility Auditor AI
- 37 Fire Safety Checker AI
- 38 Structural Code Verifier AI
- 39 MEP Compliance Scanner AI
- 40 Sustainability Standard Auditor AI

d Site

AI for site analysis, planning, and civil engineering design. This suite processes geospatial and environmental data to inform optimal site layout, grading, drainage, and infrastructure planning.

- 41 Geospatial Data Processor AI
- 42 Topographic Analyzer AI
- 43 Solar Exposure Simulator AI
- 44 Wind Flow Modeler AI
- 45 Hydrological Modeler AI
- 46 Grading Optimizer AI
- 47 Infrastructure Corridor Planner AI
- 48 Green Space Integrator AI

d Urban

AI for urban-scale design, master planning, and city analytics. This suite models complex urban systems to optimize density, mobility, sustainability, and resilience at the neighborhood or city scale.

- 49 Land Use Optimizer AI
- 50 Mobility Flow Simulator AI
- 51 Urban Climate Analyzer AI
- 52 District Energy Planner AI
- 53 Urban Carbon Assessor AI
- 54 Resilience Hazard Modeler AI
- 55 Urban Systems Integrator AI
- 56 Dynamic Urban Visualizer AI

d Interiors

AI for generative interior design, space planning, and finish specification. This suite automates the layout of functional spaces, furniture placement, and material selection based on programmatic needs and aesthetic goals.

- 57 Programmatic Space Allocator AI
- 58 Generative Space Planner AI
- 59 Ergonomic Furniture Placer AI
- 60 Finish Palette Generator AI
- 61 Lighting Integration Designer AI
- 62 Hospitality Residential Specialist AI
- 63 Healthcare Workplace Specialist AI
- 64 Design Compliance Validator AI

d Construction

AI for construction-oriented design, including sequencing, prefabrication, and constructability analysis. This suite bridges design intent with construction methodology, optimizing for buildability, cost, and schedule.

- 65 Constructability Analyzer AI
- 66 Sequencing Optimizer AI
- 67 Df MA Composer AI
- 68 Prefab Designer AI
- 69 Cost Simulator AI
- 70 Logistics Planner AI
- 71 Interface Coordinator AI
- 72 Scenario Evaluator AI

d Heritage

AI for heritage conservation, adaptive reuse, and historical analysis. This suite assists in documenting, analyzing, and designing interventions for existing structures and historical sites.

- 73 Reality Capture Processing AI
- 74 Condition Assessment Engine AI
- 75 Historical Pattern Recognition AI
- 76 Structural Integrity Analyzer AI
- 77 Adaptive Reuse Generator AI
- 78 Conservation Material Specifier AI
- 79 Heritage Documentation Compiler AI
- 80 Intervention Impact Simulator AI

d Specification

AI for intelligent material selection, product specification, and cost estimation. This suite links design parameters to material databases, optimizing for performance, sustainability, availability, and budget.

- 81 Material Database Integrator AI
- 82 Lifecycle Assessment Engine AI
- 83 Performance Optimization Selector AI
- 84 Specification Document Generator AI
- 85 BIM Based Cost Estimator AI
- 86 Substitution Analyzer AI
- 87 Compliance Verifier AI
- 88 Specification Change Manager AI

d Integration

AI for multidisciplinary design integration, data synthesis, and BIM management. This suite focuses on orchestrating information flow between domains, resolving conflicts, and maintaining a coherent digital twin throughout the design process.

- 89 Model Federation Engine AI
- 90 Design Relationship Graph AI
- 91 Change Propagation Manager AI
- 92 Design Rule Knowledge Graph AI
- 93 IoT Data Integrator AI
- 94 Conflict Resolution Orchestrator AI
- 95 Data Synthesis Engine AI
- 96 Workflow Coordination Manager AI

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DeepKnowledge

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DeepSolve

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DeepBuild

AI Software Engineering solutions



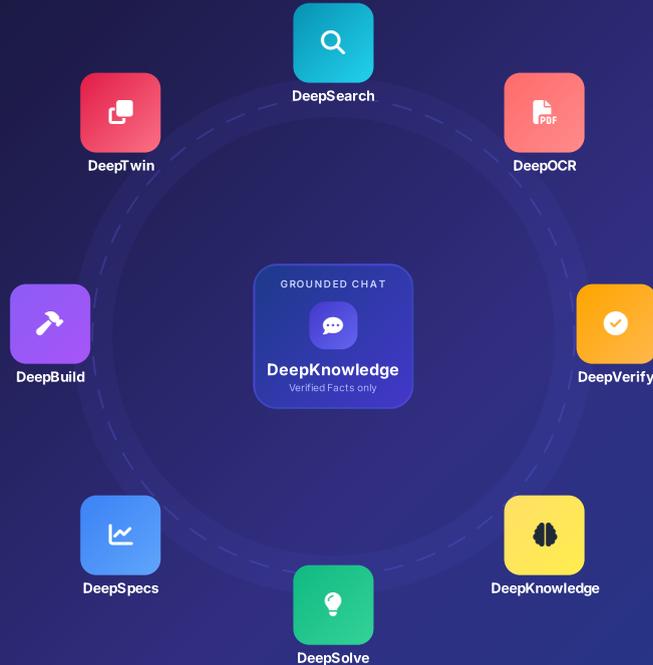
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Create and simulate digital twins

THE INTELLIGENCE CYCLE

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Every breakthrough follows the same path: discover, extract, verify, learn, innovate, specify, engineer, simulate. The Deep AI Loop automates this entire cycle.



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Dr. Sarah M.
Chief Design Development Engineer



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Michael K.
VP of Engineering



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Dr. James T.
Technical Director

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