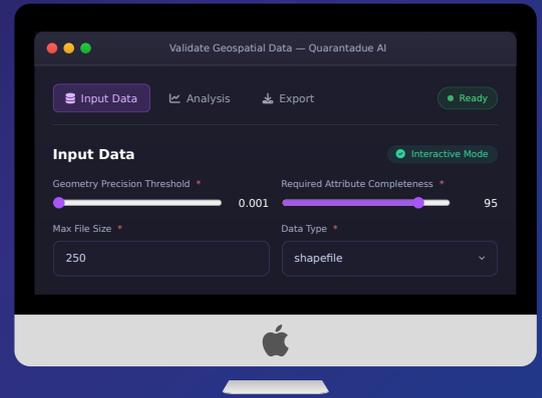


Ask Concept Design AI. Get Verified Facts. Not AI Fantasies.

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



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

c Site Analysis

AI-driven analysis of site conditions and contextual data to inform initial design parameters. This suite focuses on interpreting topography, climate, solar access, wind patterns, hydrology, and existing infrastructure to generate site-responsive design constraints and opportunities.

- 1 Geospatial Data Ingestion AI
- 2 Topographic Analysis AI
- 3 Solar Exposure Analysis AI
- 4 Wind Pattern Analysis AI
- 5 Hydrological Assessment AI
- 6 Contextual Viewshed Analysis AI
- 7 Regulatory Constraint Mapping AI
- 8 Site Opportunity Synthesis AI

c Form Finding

Generative and parametric exploration of architectural forms, massing, and building envelopes. This suite uses algorithms like shape grammars, GANs, and diffusion models to produce novel, structurally coherent, and aesthetically varied design alternatives.

- 9 Parametric Massing Generator AI
- 10 Algorithmic Form Explorer AI
- 11 Generative Facade Patterner AI
- 12 Style Transfer Architect AI
- 13 Morphological Optimizer AI
- 14 Volumetric Composer AI
- 15 Surface Topology Designer AI
- 16 Generative Design Explorer AI

c Space Planning

AI-assisted generation and optimization of interior layouts, floor plans, and spatial programs based on adjacency requirements, circulation, and user experience. This suite translates program briefs into efficient and innovative spatial configurations.

- 17 Program Brief Interpreter AI
- 18 Adjacency Matrix Builder AI
- 19 Floor Plan Generator AI
- 20 Circulation Optimizer AI
- 21 Space Efficiency Analyzer AI
- 22 Typology Layout Customizer AI
- 23 Zoning Constraint Integrator AI
- 24 Layout Iteration Engine AI

c Structural Conc...

Conceptual design and generative exploration of primary structural systems for complex architectural forms. This suite uses topology optimization, graph neural networks, and rule-based systems to propose efficient structural layouts.

- 25 Topology Optimization Engine AI
- 26 Graph Neural Network Layout AI
- 27 Form Active System Finder AI
- 28 Material Aware Morphogenesis AI
- 29 Load Path Visualizer AI
- 30 Preliminary Member Sizer AI
- 31 Hybrid System Composer AI
- 32 Constructibility Integrator AI

c Envelope Perfor...

AI-driven design and optimization of the building envelope for energy, daylight, and thermal comfort performance from the concept stage. This suite integrates early-stage simulations with parametric modeling.

- 33 Climate Context Analyzer AI
- 34 Massing Solar Optimizer AI
- 35 Facade Generative Designer AI
- 36 Glazing Ratio Optimizer AI
- 37 Daylight Autonomy Simulator AI
- 38 Conceptual Eui Predictor AI
- 39 Natural Ventilation Analyzer AI
- 40 Envelope Multi Objective Optimizer AI

c Code Compliance

Automated checking and generative guidance for building code, zoning, accessibility, and fire safety regulations during conceptual design. This suite uses NLP and knowledge graphs to interpret regulations and constrain the design space.

- 41 Regulatory Knowledge Graph AI
- 42 Zoning Envelope Generator AI
- 43 Occupancy Egress Analyzer AI
- 44 Accessibility Compliance Checker AI
- 45 Fire Compartment Checker AI
- 46 Code Constraint Visualizer AI
- 47 Generative Compliance Solver AI
- 48 Unified Code Report Generator AI

c MEP Concepts

Conceptual layout and routing of Mechanical, Electrical, and Plumbing systems integrated with early architectural and structural designs. This suite focuses on spatial coordination and major system placement.

- 49 Spatial Constraint Mapping AI
- 50 Primary System Routing AI
- 51 Vertical Chase Placement AI
- 52 Plant Room Sizing Layout AI
- 53 Energy System Integration AI
- 54 Spatial Clash Avoidance AI
- 55 Distribution Zoning AI
- 56 Conceptual System Schematic AI

c Constructability

AI-assisted evaluation and optimization of design concepts for construction feasibility, methods, and preliminary cost. This suite links design geometry to construction logic and cost databases.

- 57 Feasibility Constraint Analyzer AI
- 58 Elemental Quantity Extractor AI
- 59 Constructability Rule Checker AI
- 60 Construction Method Optimizer AI
- 61 Crane Logistics Simulator AI
- 62 Material Flow Planner AI
- 63 Conceptual Cost Modeler AI
- 64 Prefab Modularity Assessor AI

c Generative Df MA

Generative design specifically for Design for Manufacturing and Assembly (DfMA), creating concepts optimized for prefabrication, modularization, and off-site construction.

- 65 Modular Geometry Kernel AI
- 66 Kit Of Parts Optimizer AI
- 67 Complex Surface Panelizer AI
- 68 Assembly Connection Designer AI
- 69 Fabrication Constraint Integrator AI
- 70 Prefabrication Logic Planner AI
- 71 Design Rule Configurator AI
- 72 Generative Output Validator AI

c Urban Generative

AI-assisted conceptual design at the urban scale, generating and evaluating master plans, block layouts, and infrastructure networks based on multi-objective criteria.

- 73 Urban Morphology Generator AI
- 74 Land Use Optimizer AI
- 75 Open Space Network Designer AI
- 76 Transportation Network Conceptualizer AI
- 77 Pedestrian Flow Simulator AI
- 78 District Solar Access Analyzer AI
- 79 Urban Performance Evaluator AI
- 80 District Energy Planning Assistant AI

c Aesthetic Evalu...

AI-driven analysis and prediction of subjective design qualities like aesthetic appeal, style coherence, and spatial experience. This suite uses computer vision and ML models trained on architectural precedents and human feedback.

- 81 Architectural Style Classifier AI
- 82 Visual Harmony Assessor AI
- 83 Precedent Inspiration Engine AI
- 84 Façade Composition Analyzer AI
- 85 Perceptual Response Predictor AI
- 86 Style Transfer Generator AI
- 87 Spatial Experience Simulator AI
- 88 Aesthetic Trend Analyzer AI

c Design Assistant

Interactive AI tools that provide real-time suggestions, completions, and alternatives during the designer's creative workflow in CAD/BIM and VR/AR environments.

- 89 Sketch Intent Parser AI
- 90 Design Intent Predictor AI
- 91 Natural Language Design Interface AI
- 92 Contextual Suggestion Engine AI
- 93 Collaborative Session Facilitator AI
- 94 Parametric Constraint Inferencer AI
- 95 Generative Alternative Explorer AI
- 96 Workflow Augmentation Orchestrator AI

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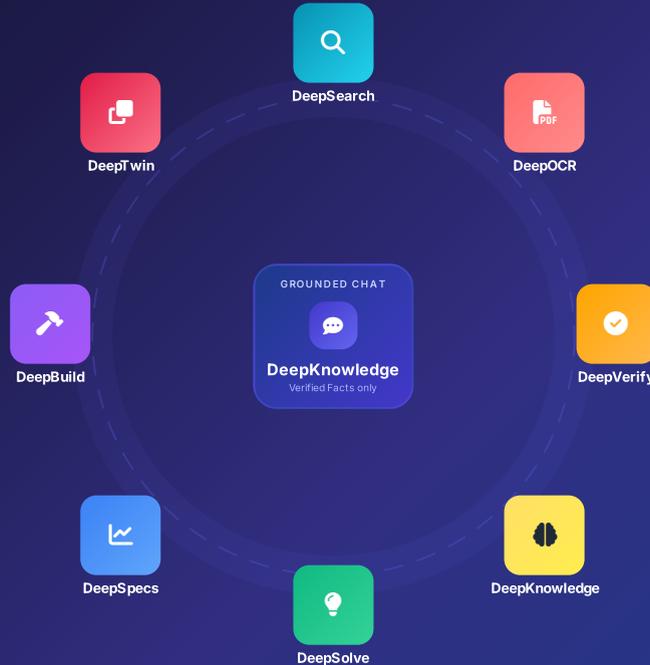
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Dr. Sarah M.
Chief Concept Design Engineer



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Michael K.
VP of Engineering



"The DeepBuild module alone saved us €200K in development costs. ROI in the first month."

Dr. James T.
Technical Director

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