



AI Tools for Every Builder: Your FSU Design Sprint Toolkit

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Our Mission

Turn your PRFAQ into a prototype
using AWS Artificial Intelligence tools

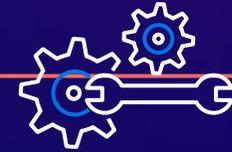
Generative AI (Foundation Models) refers to artificial intelligence that can **generate novel content**



AI that can produce original content close enough to human generated content for real-world tasks



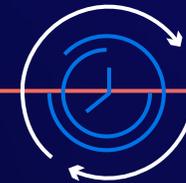
Powered by foundation models pre-trained on large sets of data with several hundred billion parameters



Tasks can be customized for specific domains with minimal fine-tuning

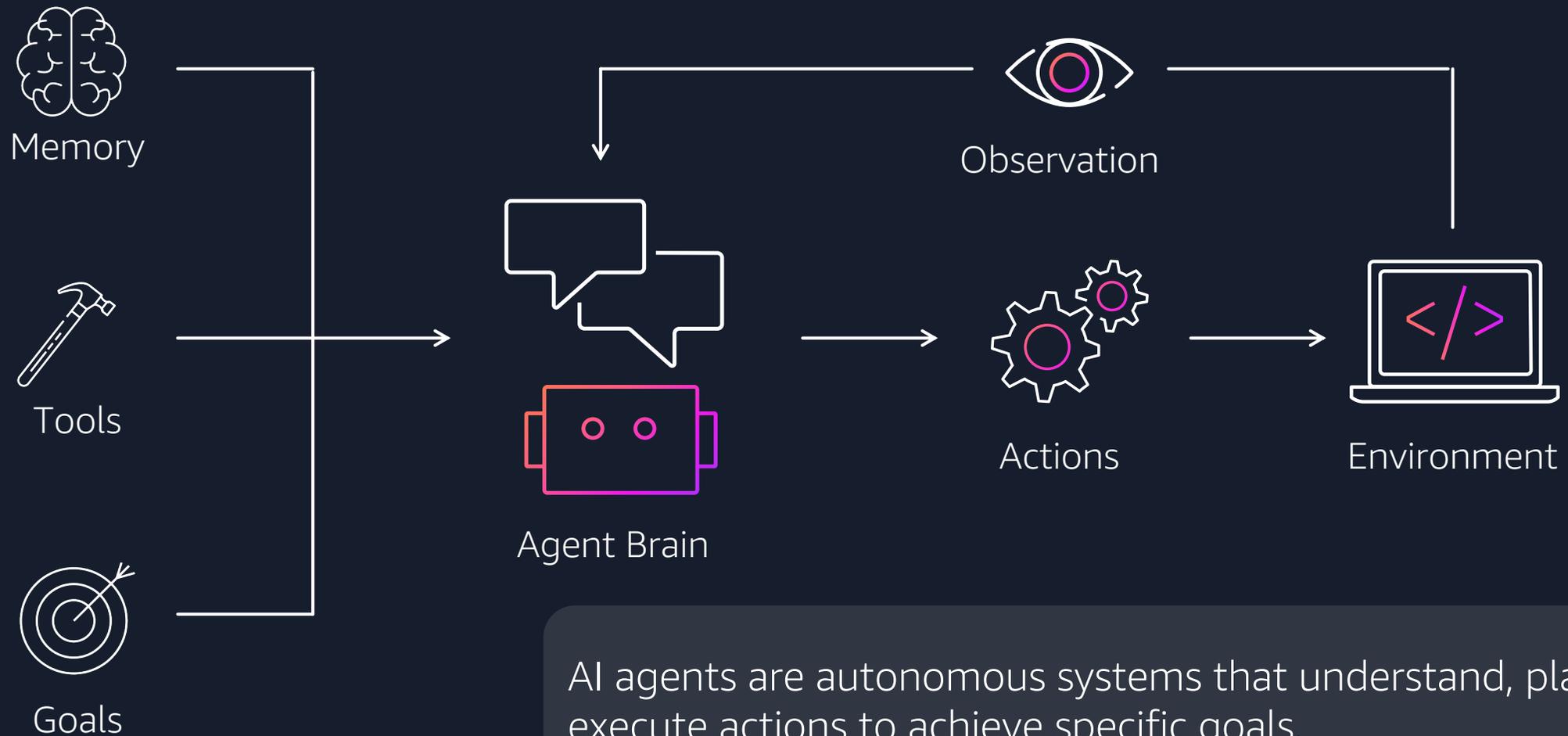


Applicable to many use cases like text summarization, question answering, digital art creation, code generation, etc.



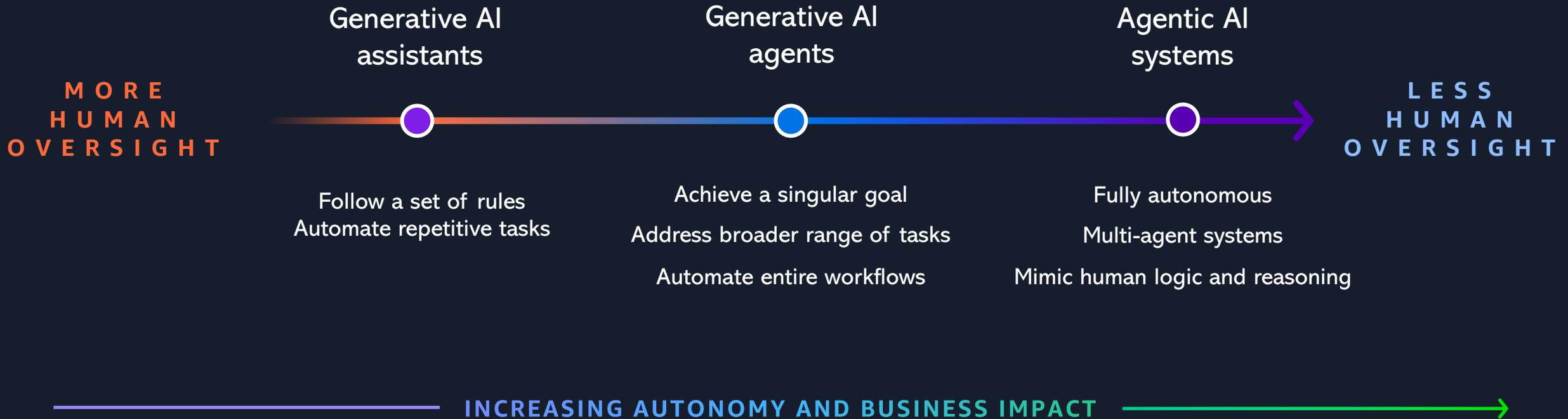
Reduces time and cost to develop ML models and innovate faster

What is agentic AI?



AI agents are autonomous systems that understand, plan, and execute actions to achieve specific goals.

Highlighting the evolution into Agentic AI



The future of higher education with AI

Research & innovation

Increase research impact, inclusive of revenue growth, scholarship output and faculty recognition

AI transforms fields by analyzing data, processing language, and computer vision, predicting drug interactions, enabling lab automation, and accelerating physics modeling simulations.

(Management, HR, Finance, Legal, IT):
To maximize operational efficiency and mitigate enterprise risk across the institution, inclusive of technology and process modernization

AI transforms management with decision support and strategic planning; legal with document review and contract analysis; HR with recruitment, learning, and performance management; finance with predictive analysis, fraud detection, and automated reporting; and IT with data strategy, compliance, and security. This integration enhances efficiency, accuracy, and overall organizational effectiveness.

University administration

Academic tuition

Support student success and teaching and learning for traditional and extension/online programs

AI transforms education with personalized tutors, text summarization, question generation, automated grading, real-time feedback, and unique learning environments, enhancing student success.

Optimize the student lifecycle, inclusive of effective recruitment, retention

AI transforms the Student Services with intelligent document processing and chatbots, driving personalized marketing, accelerating admissions, aiding decisions, optimizing student journeys through analytics, and enhancing employee efficiency with faster processing and increased staff capacity.

Student services

Campus management

Maintenance and modernization of buildings and the entire campus

AI transforms campus management by enhancing operational efficiency, optimizing energy use, analyzing space utilization, and enabling predictive maintenance. This improves productivity, occupant satisfaction, and minimizes costs and downtime.

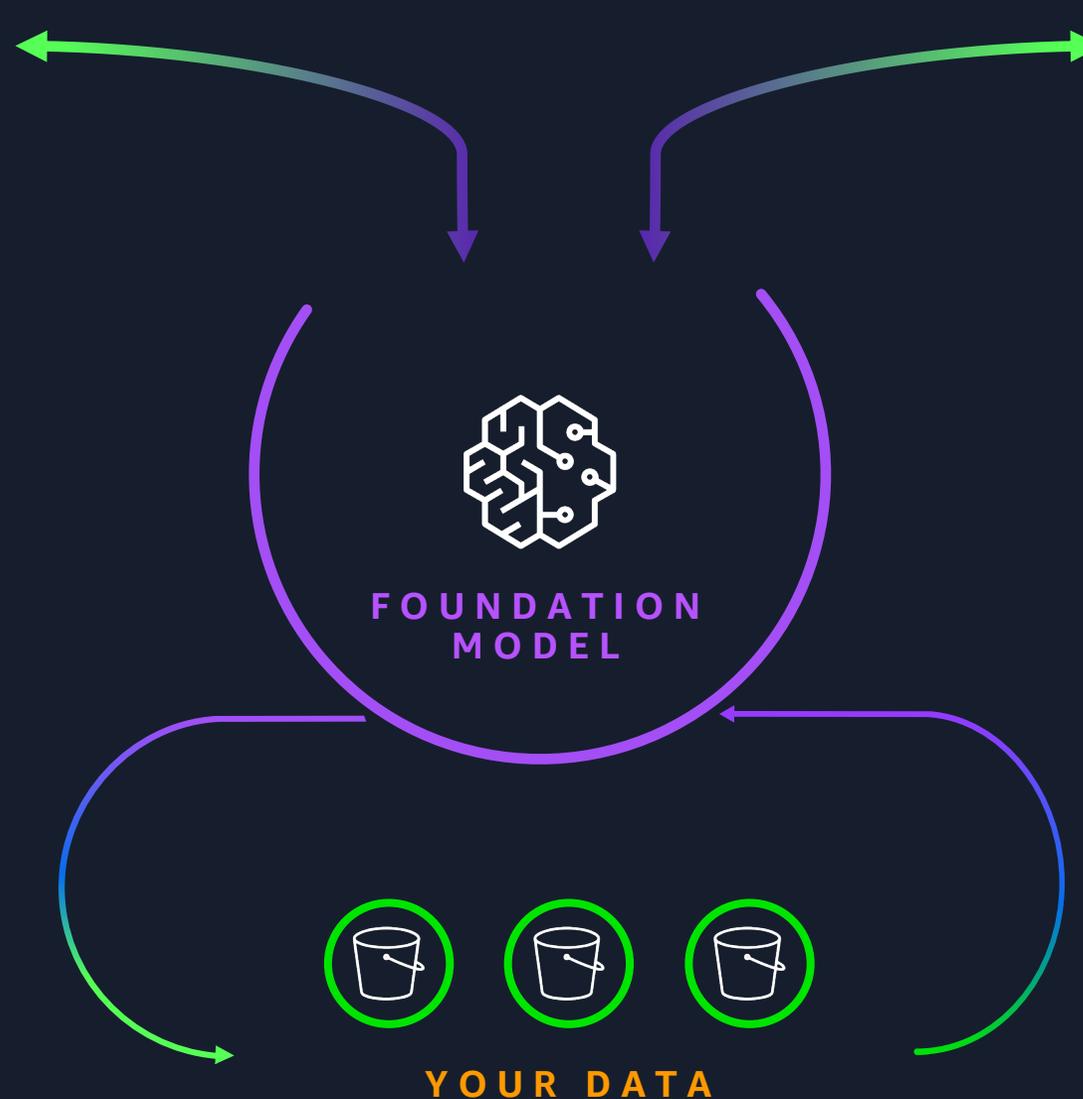


STUDENT SUCCESS

- STUDENT BEHAVIOUR & PERFORMANCE INSIGHTS
- IMPROVED STUDENT RETENTION
- IDENTIFYING 'AT RISK' STUDENTS
- PERSONALIZED LEARNING & ADAPTIVE EDUCATION

ORGANIZATIONAL SUCCESS

- OPTIMIZED COURSE OFFERINGS
- IMPROVED TEACHER EFFECTIVENESS
- PREDICTING STUDENT SUCCESS
- ENHANCING OVERALL INSTITUTIONAL PERFORMANCE





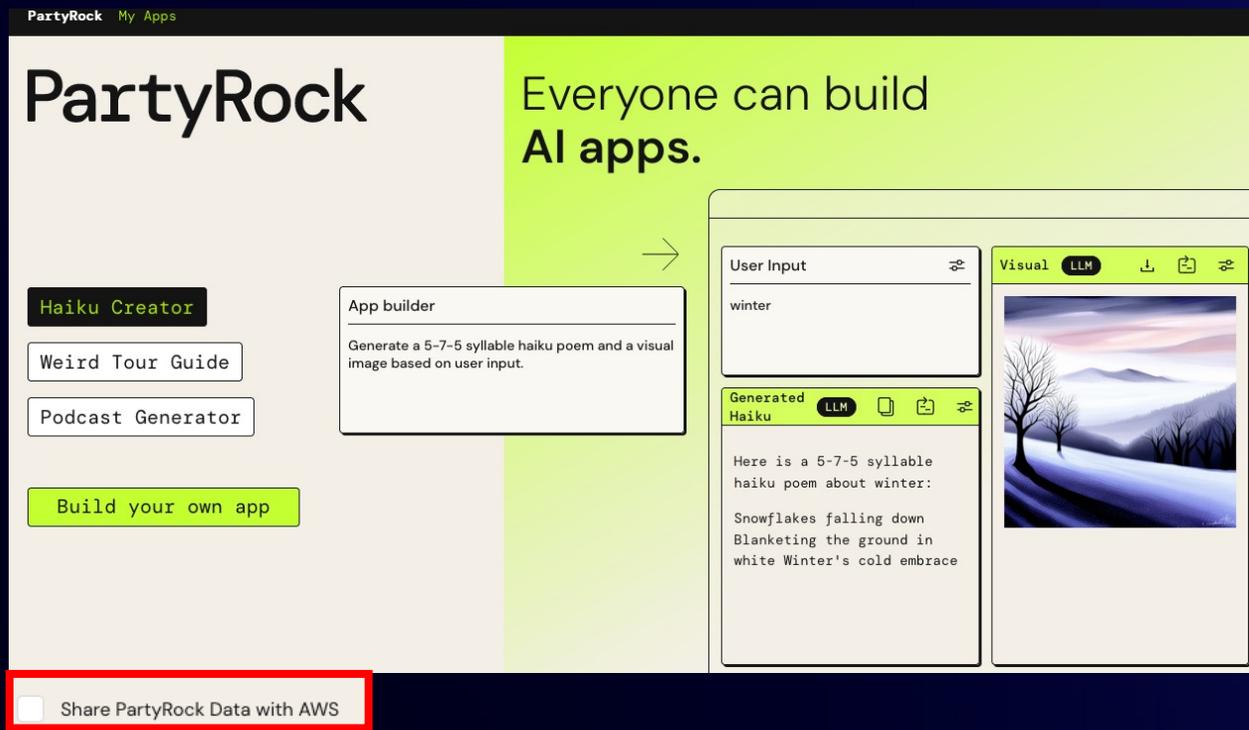
Tier 1 Options

No-Code Tools (Everyone Can Use)

PartyRock: AWS AI Playground

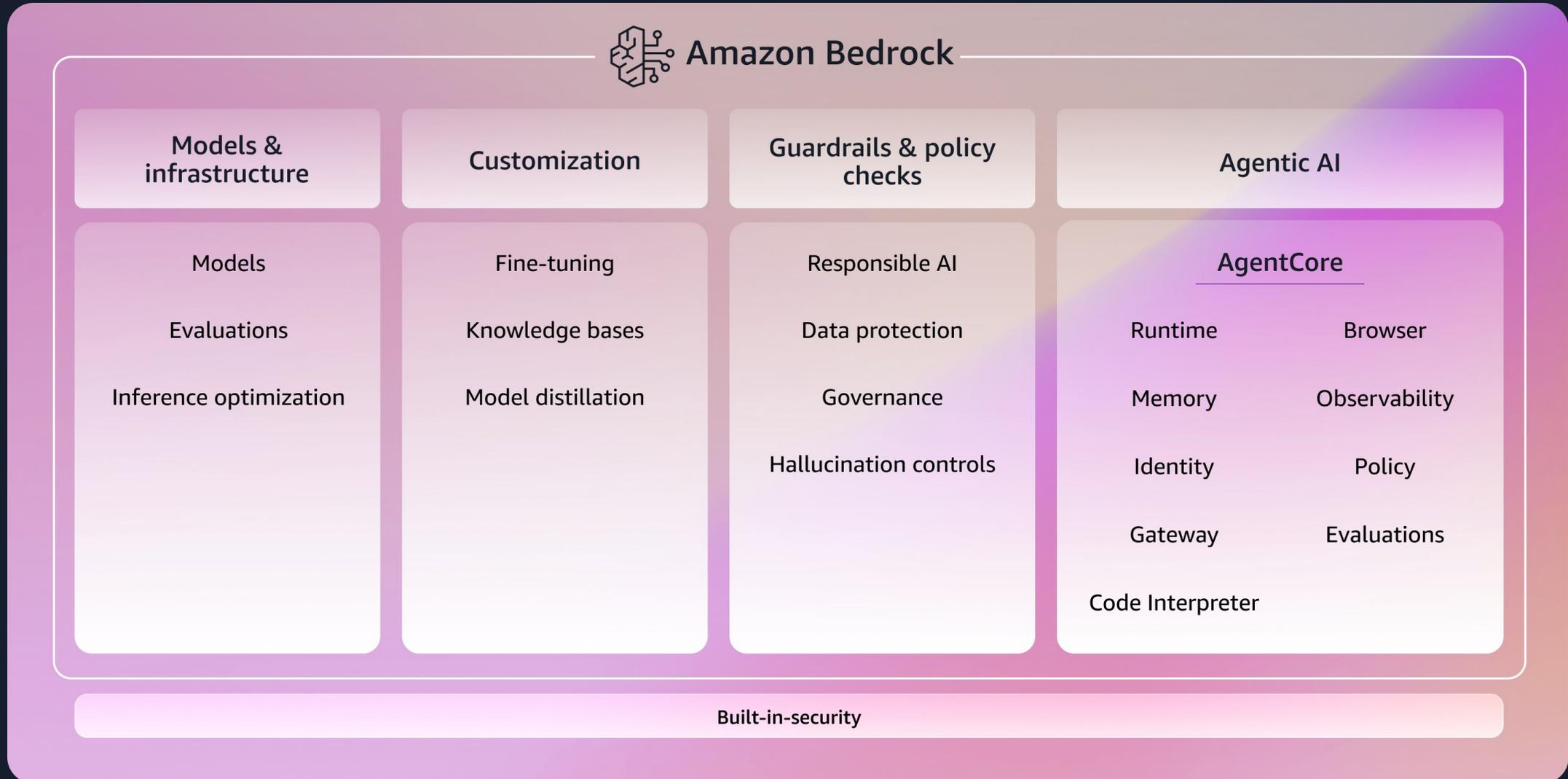
A free service that allows you to create generative AI apps without any coding

<https://partyrock.aws/>



- A "playground" where you can create and share generative AI apps just by entering prompts
- No AWS account required; can register and use immediately with the following IDs: Google / Apple ID / Amazon
- Can combine and use the following widgets:
 - User input, dropdown, slider bar
 - Document upload (PDF, DOCX, TXT, etc.)
 - Static text
 - Chatbot (by foundation model)
 - Text generation (by foundation model)
 - Image generation (by foundation model)

Amazon Bedrock - the platform for building AI applications and agents at production scale



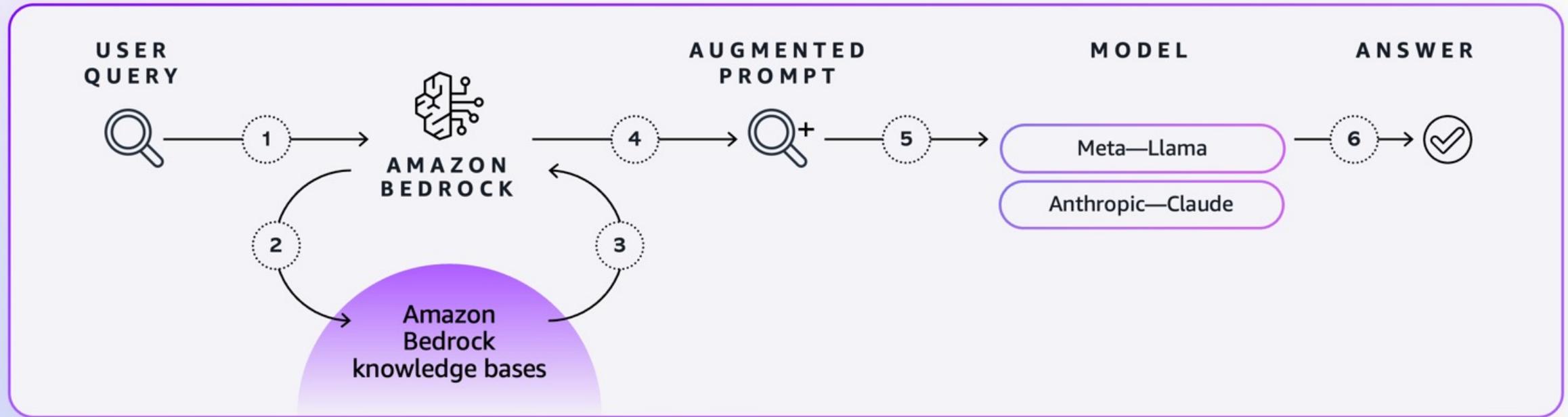


Tier 2 Options

Low-Code Tools (Some Technical Comfort)

Amazon Bedrock Knowledge Bases

Native support for RAG



Securely connect FMs to data sources for RAG to deliver more relevant responses

Fully managed RAG workflow including ingestion, retrieval, and augmentation

Built-in session context management for multiturn conversations

Automatic citations with retrievals to improve transparency



Tier 3 Options

Full Development (Technical Teams)



The AI IDE for prototype to production



Spec based Development



Steering - Ask agent to "just do" stuff and follow along. Pause and steer the agent onto the right track if it deviates.



Automate with Agent Hooks

Build production-ready agents with **Amazon Bedrock Agents**



Build & Iterate Quickly

- Rapid agent deployment
- Built-in workflow orchestration
- Focus on business logic, not infrastructure



Scale Multi-Agent Workflows

- Coordinate specialized agents automatically
- Automate complex processes
- Seamless scaling from prototype to production



Enterprise Trust & Control

- Built on AWS's security foundation
- Full visibility and control over agent activities
- Secure access to your business data



Future-proof Innovation

- Best-in-class FMs for agents
- Comprehensive agentic toolkit
- Regular updates and feature releases