



AI Foundation: What it is, the AI spectrum, business case

WHERE WE ACTUALLY ARE

PAST 3-4 YEARS Narrow AI One task, done extremely well. No reasoning, no flexibility.	WE ARE HERE Broad AI Wide range of language /reasoning. Real limits on math and judgment.	NOT YET General AI Anything a human can do, learning new skills on the fly.	THEORY Superintelligence Surpasses all human intelligence combined.
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HOW THE MODELS LEARN

1 Massive training data Reads most of the internet, books and code.	2 Finds the patterns Adjusts billions of weights to predict the next word.	3 Human feedback People rate outputs. The model learns what's good.	4 You get the product Wrapped into an app: ChatGPT, Claude, Gemini.
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WHY IT HALLUCINATES: It predicts what usually comes next. It is not retrieving facts, so it can state wrong things with total confidence.

THE AI MARKET STACK			
L1: FOUNDATION MODELS The raw intelligence. Companies training and maintaining core LLMs.	OpenAI, Anthropic, Google DeepMind, xAI, Meta AI, Mistral, Cohere, DeepSeek	L4: AI APPLICATION PLATFORMS Platforms to build, deploy, and manage AI products without raw infrastructure.	Microsoft Copilot, Salesforce Einstein, ServiceNow AI, SAP Joule, Coupa AI, Glean, Writer
L2: CLOUD INFRASTRUCTURE Hyperscalers / managed platforms that host, serve, and distribute models at scale.	AWS Bedrock, Microsoft Azure AI, Google Vertex AI, NVIDIA DGX, IBM watsonx, Hugging Face	L5: END-USER AI APPLICATIONS Consumer and SMB products built on foundation models, targeting specific use cases.	Canva AI, Notion AI, Grammarly, Perplexity AI, Harvey AI, Runway, Midjourney, Jasper
L3: ORCHESTRATION & DEV FRAMEWORKS Tools that wire AI components together, prompts, memory, agents, and RAG pipelines.	LangChain, LlamaIndex, LangGraph, AutoGen, CrewAI, Portkey, Kong AI Gateway	L6: OPEN-WEIGHT / SELF-HOSTED Tools that wire AI components together, prompts, memory, agents, and RAG pipelines.	Meta Llama 4, DeepSeek V3/R2, Mistral/Mixtral, Google Gemma 3, Ollama, vLLM, LM Studio

THE 6 GOLDEN RULES OF AI USAGE

1 No confidential data Public tools are a public forum. No client names or financials.	2 You are accountable AI is a tool. You own what you send, publish or decide.	3 AI predicts, it doesn't think A confident tone is not accurate content.
4 Always verify facts Check before you send. Confident output can still be wrong.	5 Better prompts, better output Thirty seconds up front saves ten minutes of editing.	6 AI gets you 80% there First draft, summary, brainstorm. A human closes the last mile.