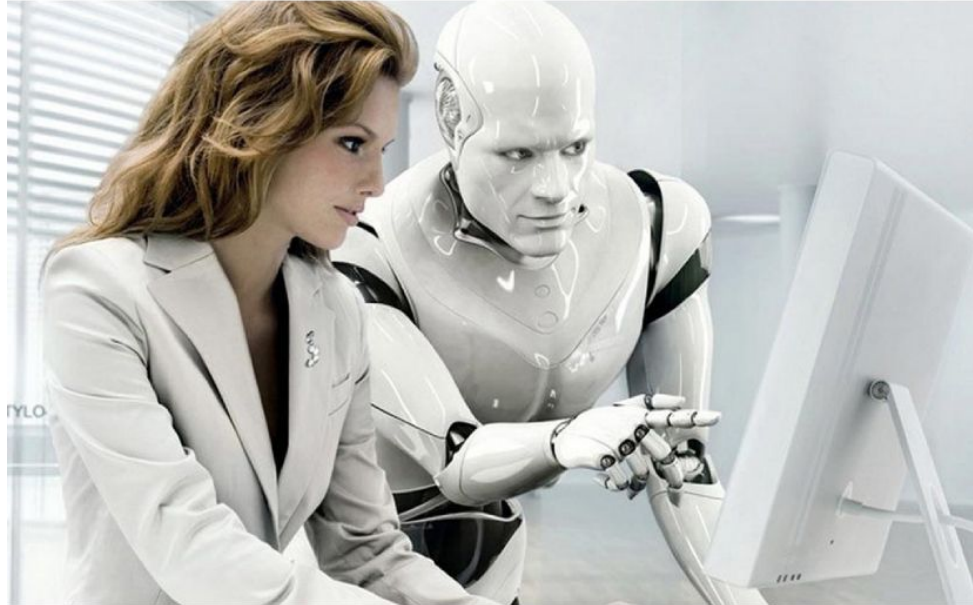


Most Useful tools today in Enterprise - Lets List them

Emerging ecosystem of Ai Capabilities & Agents



Presented By: Abhi Yadav

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Abhi Yadav

Bio- 3X Venture Builder, Technologist - Held Exec titles: CEO, CPO, CTO & CIO

Expertise: AI/Data, CX/Personalization & Decision Intelligence

- Co-founder & CEO - i-Customer - Decision Intelligence company
- Co founder of AI Innovators Community (AIC) - AI Exec community in US

Work



Clients i have worked



Let's start listing

Content Creation - Text, Image, UI, Video

Research or Search -

Knowledge Management/BI/DI - Summarization, Q&A

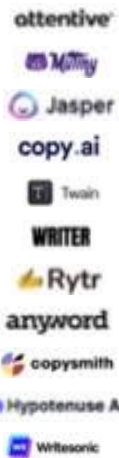
AI in Enterprise

Enterprise: Horizontal

Search / Knowledge



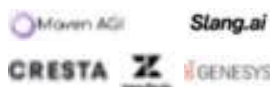
Marketing



RPA / Automation



Customer Support



Productivity



Sales



Design



Data Science



Software engineering / Code generation



Enterprise: Vertical

Healthcare



Legal



Bio



Financial Service



Translation



*Sequoia

Modern AI Dev Stack

Layer: 4 Observability

OBSERVABILITY AND SECURITY



Layer: 3 Prompts and Inference

PROMPT MANAGEMENT



AGENT TOOL FRAMEWORKS



Layer :2 Data

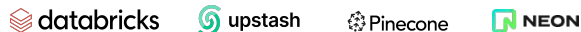
DATA PRE-PROCESSING



DATA PIPELINES AND EXPERIMENTATION



DATABASES (VECTOR, DB, METADATA STORE, CONTEXT CACHE)



Layer :1 Compute and Foundation

MODEL DEPLOYMENT AND INFERENCE



TRAINING



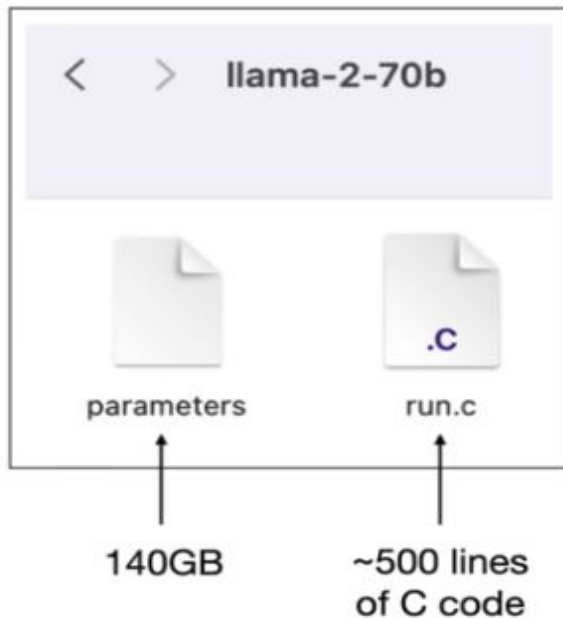
FOUNDATION MODELS



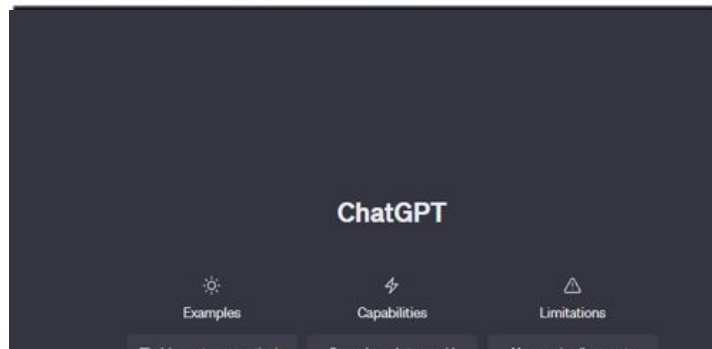
GPU PROVIDERS



DIY Personal ChatGPT on my device, my data...



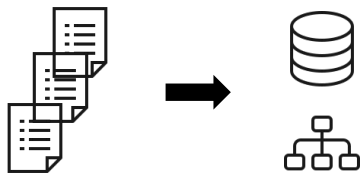
MacBook 



Emerging Gen AI use cases beyond- Search & content generation

1

Automated Document Processing



Automatically convert documents to desired format: summarize, classify, segment, generate, extract entities

2

Retrieval Augmented Generation

> Can I bring my dog to work?



Search based on meaning and generate relevant answers. Chat with a document.

3

Unified Natural Language Query



> Which customers may cancel?

Get answers to questions across many data sources without using SQL

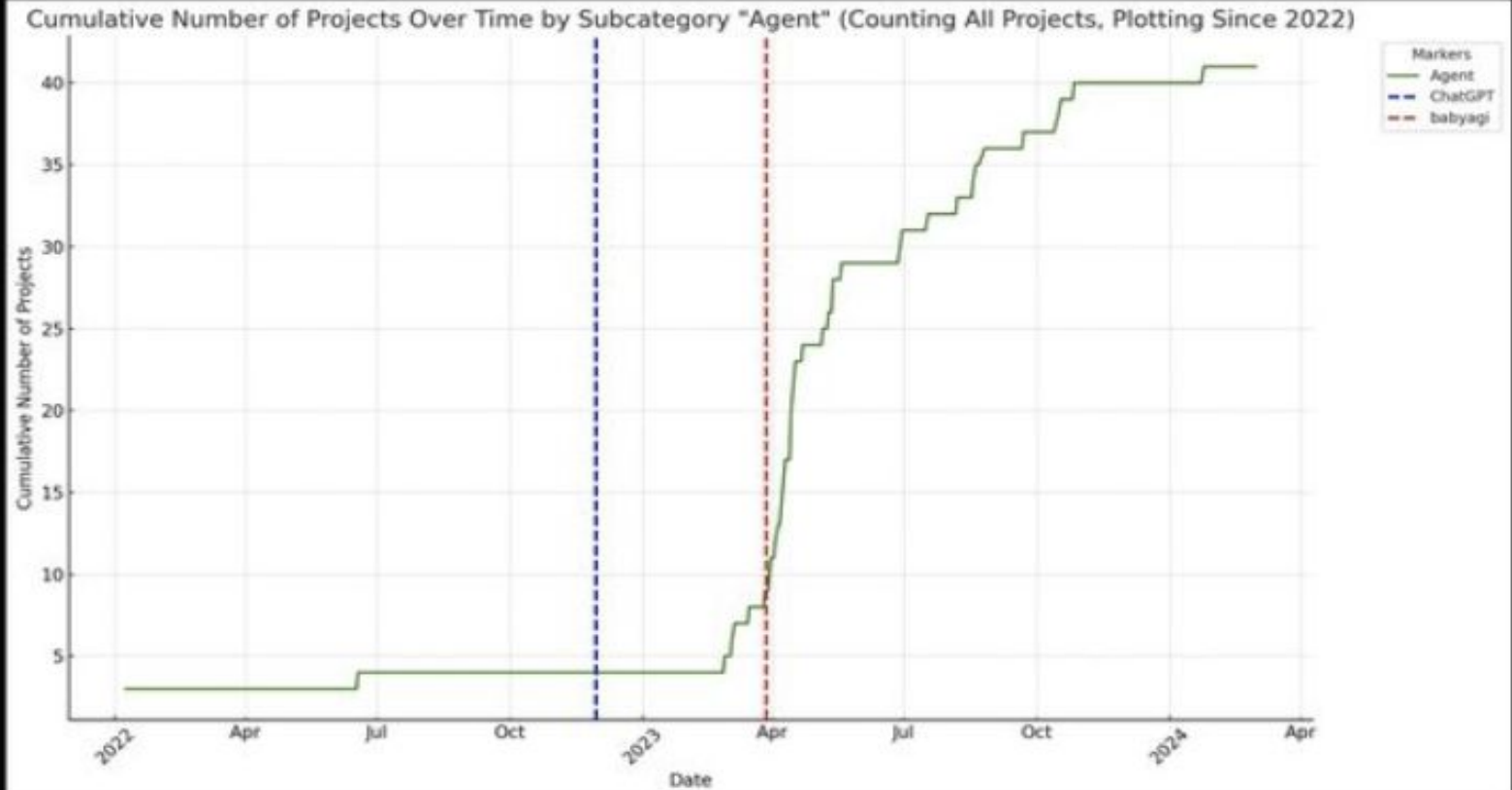
Enterprise is investing in 8 Key - Gen AI Capabilities

Capability	Explanation
Text classification	Assigning categories to documents or document sections.
Information extraction	Pulling out names, places, or specific sections from documents.
Semantic search	Finding information based on its meaning instead of keywords.
Information summarization	Condense extensive documents into concise and essential highlights.
Information comparison	Identifying similar documents or sections of documents.
Document generation	Creating precisely written content consistent with style and needs. Often includes a review step.
Unified natural language query	Empowering anyone to get answers to questions about data and documents without SQL or tools.
Routine task automation	Automating analysis of information from various sources, reasoning across them, and making decisions

Framework for Enterprise AI maturity along five dimensions

AI maturity dimension (Goal/Use Case)	Capabilities	Infrastructure	Talent	Governance	Tools
AI driven business intelligence	Primarily Unified natural Language query. Also Information extraction, Information summarization, and Text classification depending on selected data sources.	Interface to LLM APIs (GPT4- others) and our data sources Libraries to improve LLM performance (prevent hallucination, improve results, provide insights)	Learn how to leverage LLMs in business process Example code base engineering team can extend User experience learning to interface with chat for data insights	Baseline metrics on efficiency gains, identify policy gaps Experience for identifying and scoping future projects	Data science development environment, customized natural language chat interface.

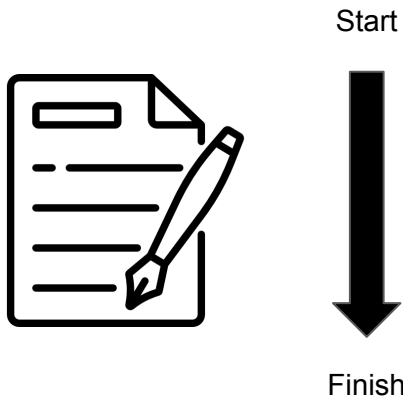
Growth of projects related to AI Agents



Autonomous Agents

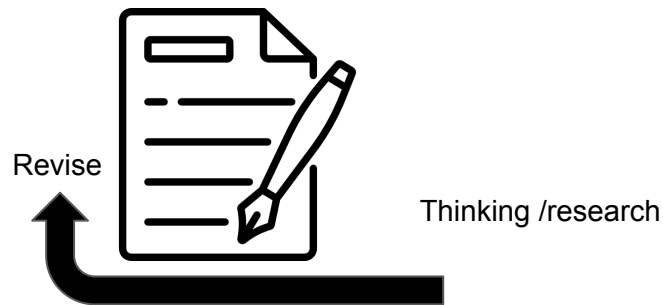
Single Agentic workflow (zero-shot):

- Please type out an essay on topic X from start to finish in one go, make it readable as professional



Multi Agent workflow:

- Select the most trending topic today in X
- Write an essay on the topic
- Do research and get reliable quotes
- Write a first draft.
- Consider what parts need revision or more research. Revise your draft.
-



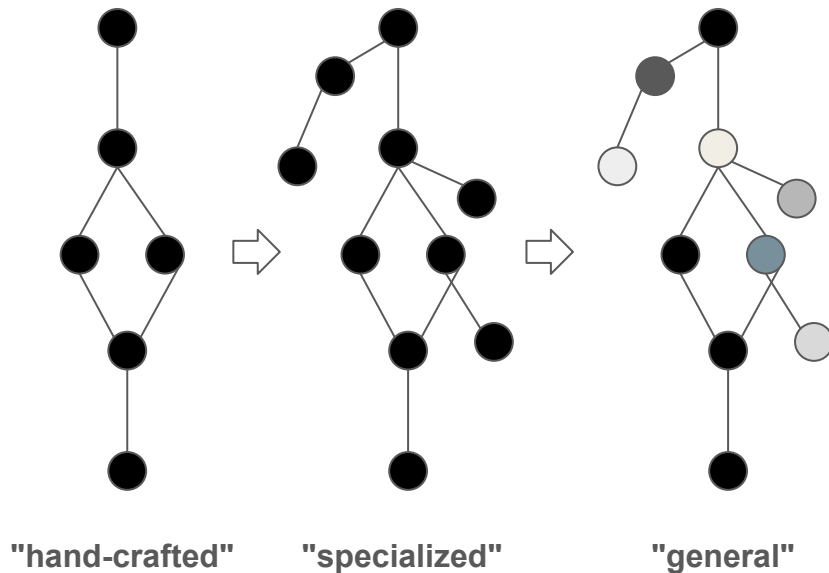
Agentic Race: Lot of momentum in this category



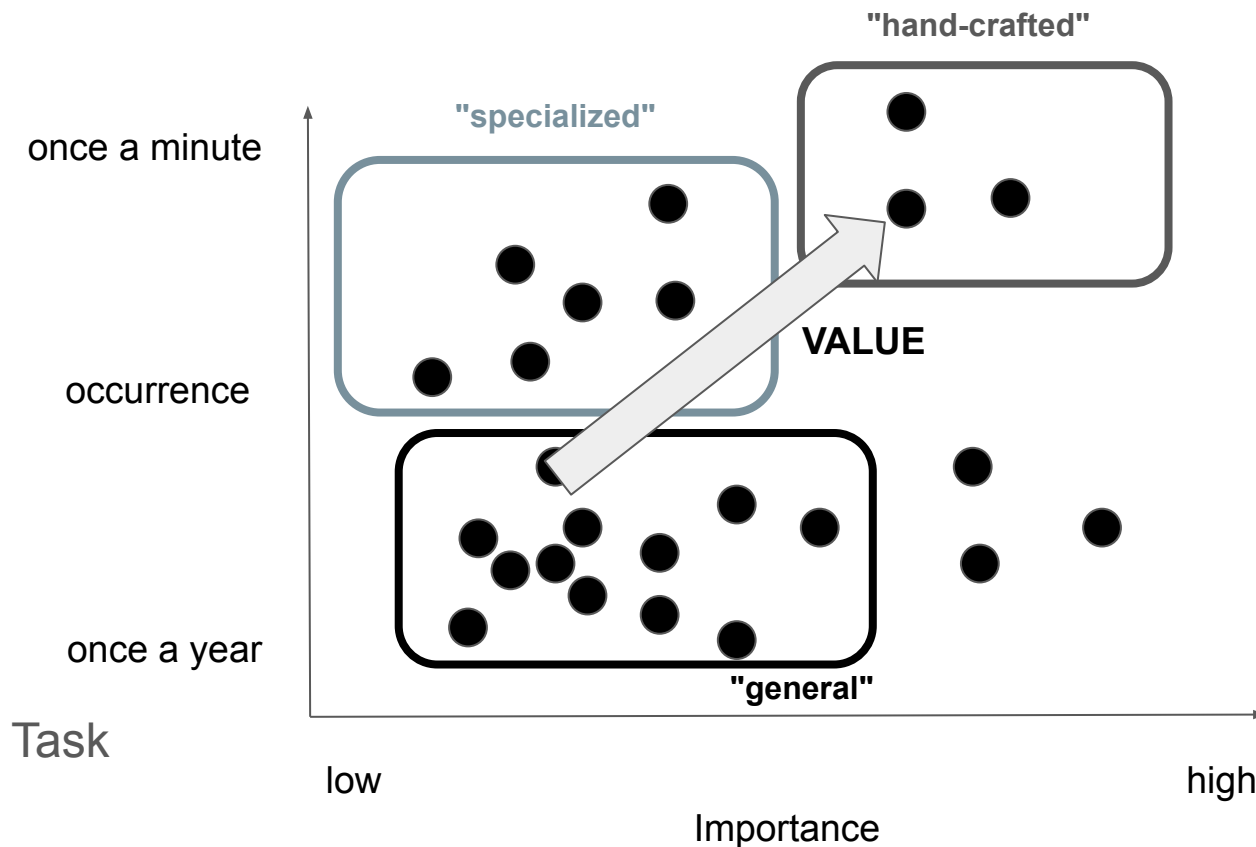
Types of Autonomous Agents

In my mind, 3 buckets of agents (on a scale):

- **"hand-crafted"**: chained prompts and API calls. Working well in a robust way.
- **"specialized"**: dynamically decides what to do within a subset of task types and tools.
- **"general"**: can do anything. nothing reliable exists as there are too many edge cases. AGI?



Agents: Value framework



AI Agents Landscape

Made by E2B.dev - Sandbox for AI Apps & Agents

E2B Sandbox
support/integration
INTEGRATED WITH E2B

Open source

Closed Source

Coding	Open source		Closed Source	
	Aide Smol Developer bloop. Automata Vanna.AI Sweep AI GPT Pilot DemoGPT WorkGPT ReactAgent AutoPR English Compiler Open Interpreter Continue GPT Migrate GPT Engineer Sourcegraph Cody AI cody		Tusk BitBuilder GitWit v0 by Vercel Airplane Autopilot Copilot X Factory Hex Magic grit codium GitLab Duo Deepnote AI phind SECOND mutable.ai Butternut AI Cursor Codegen Duckie AI DevGPT	
Productivity + Daily Life	Local GPT PromethAI Agent4Rec		Moone MultiOn Lindy Spell Cykel FL DE Otherside Personal Assistant Wispy AgentScale COGNOSYS	
General Purpose	BabyAGI Multiagent Debate BeeBot MiniAGI MultiGPT AutoGPT XAgent Suspicion Agent		Artisian Questflow GOD MODE ADEPT	
HR	Autonomous HR Chatbot Data Analyst LangChain E2B Data Analyst MemGPT		TalktoData Graphlit Julius Dot Business Intelligence ability.ai aomni Taxy AI	
Science	Chem Crow Research GPT Researcher		Design Diagram Marketing GoCharlie	
Build Your Own	Superagent BondAI AgentPilot AgentGPT Adala Agents AutoGen IX MetaGPT pezzo AgentVerse AgentForge OpenAgents SuperAGI LangChain		OpenAI Assistants AltaFlow taskade Finance THORCHAIN	
Agents Runtime	E2B		Google Cloud Platform aws Modal Azure	

Thank You

Please feel free to contact me:

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Emerging Agent Components

