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Test technique Digitalkin
           But: Haentic Mesh
                   4 Agent Factory 4 Agent
4 Mesh 4 gRPC
          Sources: Acticles Medium Eric Brodn

(+Booki "Artenamous

(amolice" Da cala)
                            Computing" -D à cote)
          Phase 1: Etude (line article + synthèse
                                    résultat )
           Acticle 1 Isolated Al to Agentic Mesh (Triband Percin)
               . each agent Follow simple rules to mached to contailable
                to collective intelligence
              "growling in reality" -> validation that the task has
             . Task collaboration: each individual task is the
                        responsibility of a single agent
         Hati-About
brachusus
            MAS: Decentralization | local viewpoint | Autonomy |
               Hyent Interaction
           -DValidate against expected objectives
                 La Self-correction
           A Security & trust A - Each agent must publish
performance metrics
           -DZKP (zero Knowledge proof) + DID (Decentralized
            (deatily)
          -D Standardized Registry
            -D Mouldarity (micro-services ])
           Acticle 2: Agentic Mesh: Towards Entreprise grade
                                        Agents (Eric Brody)
           Al workflows: IA in predetermined code
           Af Agent: LLM direct their own processes & tool usage
          EG Agents: Al Agents in a set of ecosystem
                               with key properties
           Key properties: - Discoverability (Aunts can tind
                                                each other a tools)
                            - Observability (one can view a undecishall
Agent is operating metrics)
                            - Operable (Ency to build, package & deplay
                                        an 'agent)
                            - Secure + Trusted Creatifies What agent
                                                is doing what it should
           Proposed Architecture (Concept)
           · Endpoint for communication
          Foundational Capabilities:
              Le Core: Discoverability, Observability, Operability,
                          trust framework
              Le Security:
              La Collaboration: Discovery, Protocol, State Management
                                Internations
          · Task Munugement:
            LATACK Planning
            LATESK Execution
          · Intelligence
           La Problem solving
           La Learning
           Lo Memory / history
           LA Tools
          Acticle 3: Agratomy of an Astonomous Agent (Eric Backa)
           * AA reacts to environmental stimuli, is proactive in
           pursuit of a goal (s), has social interaction capabilities, and cape us. Thicke (AWS)
          Intelligence Luyer:
              LA Task Magnit:
                  · Task planning: A injests task request
                                and coute execution plan
                                with steps to Fulfill the task
                     · tool identification . Parameter retrieval
                  · Task Execution: A executes each step.
            La Intelligence: fools + LAM, (classic Agent stoff)
          · Azent as Micro-services
              1 Agent = 1 container with endpoints
           Endpoints description
             GET /specification - get agent specs in OpenAPI
                                       SSON
           Post /tasks __ Execute tasks with specific
                                 primpt a primetters
            GET / observations - Return agent metrics
            POST / operations -
                                     start/stup/pause/posume
           - Agent use fools
             . Tool Affribute: name, purpose, parameters, exec Function
             · Tool Services: configuration, Agents, system services,
                              application services.
           . Bootstrupping an Agent
            1) Create tool inventory (with approved tools)
               /gather
            (2) Lond Agent config + register tools in configuration
               + load config at tools
           (3) Register agent in registry
           (4) Get other agents & add them to tools
           (5) Agent is youd to qo!
           + publication of changes + getting
              in the ecosystem
          · Azur States
                               Rady
                   rack info provided task stack
          · Need to keep conversation in memory
                Memory = Conversation history
                         + Con Figuration
                         + tools us knowledge extension
            +> Example is Bank account opening
               Using multiple agents
               (identity-vecification, KYC, account-opener)
                                                   BME
                                    Pappers
            (Ni
                                                       MP API
           Jer: Frools
           Synthèse:
            Acticle de Booda = super base pour nettre
les élements en place
           (todbox, registry, agent, etc)
            All manque une étape dans le tack planning:
la vérification évoquée par Thibaud
("grounding in reality") -> permet en t
d'évaluer les autres LLMS.
           Next step: TOOD List des éléments,
archi "grosse maille" et implémentation.
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