Week 4 - Kangenaino Langraph The Langerain Ecosystem? languain is one of the intial framework that was involuted. - Lengtheim is used for RAY implementation - Build you app with Langchain Build context-aware, reasoning applications with Langchains flexible framework that leverages your company's data and APT's - Lay dai Langenain albows has build app as wer - We can Lengthain workflow to build agentic platforms Lamggraph > > Leviggraph is an open-wurse AI agent gramewark developed by Langendin, disigned for building, maintaining and deplaying Complex generative As workflows - It provides tools and Libaries to create, run and optimize large Language models (Ling efficiently -> Langgruph is a low-level or chestration framework that allows developers to build controllable agents and offers platures like statement and depugging capabilities. -) It is an abstraction layer that allows to organise your thinking of workflow of different carrier that would have feedback woops and - Longcham has a third product called Langsmith that los monitoring of De can connect hanggraph via rangemitch to that

Changgraph studio inisuall builder

Changgraph platform - it is a place used for

deploying & running your

agents at scale. (3) Langgraph agents at scale. They warming Terminologies -Physide Monthspires -> Graphs ->
-> Agents workflows are represented us graph
-> State ->
-> state ->
-> Auto represents the current snapshot of the application. > Nodes - Nodes are python fr that represent agent logic. -> These Nodes relieves ourrent state as input, orb something, and return an updated state. Which mode to execute based on the state: Phey can be wonditional or fixed. (Node) Edge Edge Node Noch five steps to the first graph -Define the state class

(2) start the grouph builder 3) treate a mode J-repeat to create a lot q woods (2) bright the grouph of for running.

States State is munitable a function takes a state and returns a Itate as output. for each field in your state, you specify a spella function called a reducer - Langraph uses the reducer & bo combine this field with existing state, when you return state This enables Lengraph to run multiple nodes & concurrent and combine states without overwhe I A graph defines one set q onteractions by white agents and their use of tools and perhaps delegating. The super-step -- A super-sup can be considered a sigle iterat - won one the graph nodes. I Nodes that run in parallel are part of the -ntially before belong to seperate superstep. - Agraph describes one super-sep: one interaction between agents and hools no achieve an outure. -> Every user interaction is a fresh graph invoke (states call. -) The reduces handles updating thate during Reducer croesn't herndle, the separate super steps

Checkpointing , Define graph Super-step & 8 yru stop 80 super sep d'o

> Project 6 + sice leich misseum goals -- Introducing powerpuloul now with my - multi-agent vorupou about the state -> Playwright -> + Redywright is an open-source autometrion library for browser. a It is used for web resaping 19t was developed by micronoft -> West version of Lelevium. -> Problem y ongros -> It only supports on event woop. Hogy - for overcoming that i ne can use next-anguio por for doing this that is running were doop within another It is an pyrnon function that we will use in ledge and devide which route to go in if it is a cool will - return touts of in otherwise - return evaluation Worker nower and the second for the first that the second second The state of the s