Was proposed to transform static L.M.into dynamic goal-driven entities capable of addressing more complex problems than typical NLP tasks

Intelligent Agent (Al Agent)

- An entity that perceives its environment, takes actions autonomously to achieve goals
- May improve knowledge through machine learning or aby cquiring knowledge

Why

- Faster
- Increased efficency through automated tasks
- Can procss large amounts of data quickly and respon promptly
- Ideal for fast decision making

Agent ≠ Application

- An agent acts on behalf of user with a degree of autonomy
 - May be seen as the next generation of due to
- An application performs a specific task or set of tasks for a user

Example: A Travel Agent

- 1. LLM
 - Task: book a flight & find hotel
 - Details: departure/arrival
- 2. Planning (GOal Decmp + Strat)

С

- 3. Memory (Tascking state and context)
 - o Preferred airlines or hotels
- 4. Tools (Action Execution in the Real World)
 - Various APIs

LangChain

- Most popular modular agent construction
- Built around 3 core components

AutoGen

Framework for creating mulit-agent AI applications that can act autonomously