



SOCIETY & TECHNOLOGY

AI Agents / Autonomous Systems / Future of Work / Human-AI Interaction

A Day in the World Run by AI Agents

Let's suppose that when we move to tomorrow and we find that everything around us the traffic of our city, the management of our workplace, the news we read, food we order all these things no are not managed by us but now these are managed by AI agent these are automatically working agents these agents makes a lot of decisions in 1 second the future is not more for away as we think . And the most important conversation of our generation these day is that how the world looks like when it controlled by agents, how our works are managed.

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The morning works of the agent

Suppose that I will bring you to a morning this is not an imaginary dreaming morning that is 100 years away from this time but this morning is very close this is the morning that researcher and technologist believe that it will happen in within this decade more quickly. When you wake up you normally check your phone but within this time you don't need to check your phone and AI agent already manage your weather your homes temperature it manage your calendar and also manage the inventory ingredients of your home if inventory is about to complete it alarm you to purchase new things. And when you brush your teeth the second agent already manage your working email and sports that you have arranged a meeting and meeting is delayed this agent inform you and meeting is delayed it means that it control all your work before you wake up it manage all your work during your sleep.

I am also a computer science student .I am a web developer. And when I notice that the development that artificial intelligence has made these days specially from past 2 years this is not 100 years ago time but this is just within 2 years time I notice that this term is not theoretical but this is the actual system being deployed in this time. the picture that emerges is very exciting and we need to think about it very carefully as a web developer we are not just work on apps we are now develop proper agent these agents are very different from apps when we discuss about artificial intelligence when we actually understand how agents and apps are distinct from each other.

A tool is that thing that need a command for its working it does not do anything with out a proper instruction but an agent is that thing that is want to achieve it's goals. Agent sense it's environment and take action accordingly it can do what we think and want to understand what will happen this time. It do all the working without human command it do not need human instruction at every step. When shift from tool to agent we need to understand this most important thing is that what is happening in our today life we are busy so much that we have no anytime to give instruction to tools that they do work so we most prefer the agents. In this article I want to show that how agent simplifiers our everyday life and how it easier our work.

“We are not just building smarter tools. We are building agents. And the distinction matters more than most conversations about artificial intelligence acknowledge.”



What is an AI Agent?

The term "AI agent" is used more commonly but its worth is most important in computer science. And agent is a system that adopt its environment through sensors and when it adopt its environment it take action accordingly it make decision automatically and do not need any proper guideline to do it's work. It's brain is just like the human it do all its work without guidelines the most important difference between the previous agent and the modern agent is that these agents handle the problems they do not need every step instruction for every situation. It's construction is made accordingly that it handle problems according to its own choice it do not need any pre planned process to do its work.

The foundation of modern AI agent is large language model this is the same kind of technology that build of the conversational AI system. But agent is different from conversation. it allow us to access it's tool and then we act on it. We take an example of customer service agent is not just answer the question but it manage our account it manage the inventory then update the record accordingly and increase human demand so that our experience is better and in the same way a software development agent not only give us code but it run our code check the error of the code and then revise the code it test it and then deploy the service and in the same way I research agent not only short the information but it search the web full down documents etc.

The capacity is now between the two terms one that AI that just answer the questions that we ask it and the one that complete a lot of task at once these two terms different. And the second term is that the industry has dressing toward and in many domains it has been ready to deliver.

[Figure 1: A diagram of a single AI agent's decision loop — perceive, reason, act, observe — operating across a human's daily environment: home, commute, workplace, and healthcare. Credit: Alisha Fatima / PakTech Today]

Figure 1: The perception-reasoning-action loop that defines an AI agent, mapped across a single human day. Unlike a static tool, the agent continuously updates its understanding of the environment and adjusts its behaviour. Credit: Alisha Fatima / PakTech Today

A Day managed by AI Agent

The most easiest way if we want to understand how artificial intelligence change our world is not understand by analysing the morning it can be understand by analysing the whole day not in detail but shortly. We focus on what is happening who decide it and the role of the human in this artificial world.

Suppose you wake at 6:30 a.m. your home already adjusted the heating system started the cattle to make your coffee and arranged all your work in line. For example if someone send your three emails the Gmail are very detail agents sunrise these emails very shortly , and an other agent inform you about the weather of the day and sports that you have a meeting at 9:00 a.m. and no this meeting is shift towards the 9:30 the agent handle the Lee sketching of the meeting and also manage your other work accordingly it also update your calendar and you need only to confirm .

When it 8:00 a.m. you are commuting for example the traffic management system of a city it is the network of many agents that since your road and handle all the system accordingly it check the weather data, handle the accident reports of the day and adjust the signal time to manage the traffic flow and control the traffic accident. And your rout app in your mobile means your rout agent re root you if there is a problem in that rout and you are safe from big problem. Let me take the example of the flight company logistic agent we notice that there is a problem due to the lots of the order the agent delayed the order for 11 minutes it means that no one can place order for 11 minutes and no delivery can be higher it means that it releases the pressure from delivery boy and manage the whole working.

Now when you are at work the software development agent work whole night. If we are given it a task at yesterday afternoon to investigate the problem that is caused by the unknown feature and it disturb the



performance and production of the system and in the morning it can do 47 test and identify the cause of the problem and fixed the problem and test again and again to cover functionality of the system run as it work before it means that functionality don't disturb and it works whole night to find the problem solution and then it need human review. We notice that this work take the 2 days of a developer and it complete it while we are sleeping. it means that the human engineer job is not to investigate the problem but just review the solution that is proposed by the agentic AI .

“The human engineer’s job today is not to do the investigation but to review, validate, and decide. The question of what humans are for in this world is not rhetorical. It is urgent.”

AI in Healthcare

Now we have to understand that the importance of agent in healthcare the importance of the importance of agent in hospital is more important and more significant than any other field, and it is also more sensitive. We use AI agents for treatment planning sport monitoring the patient records and admin office work flow management. The agent in the hospital continuously revise the lab results of the patients that are admit in the hospital it also a monitor the noticed the record of the patient that are under the specific doctor an other agent monitor the bad allocation to the patient in this way it precisely manage the overflow of the patient and it also control the discharge time of the patient and provide the proper Day Care accordingly as per doctor prescription. And the third agent handle the doctor patient communication answer the questions of the patient and it monitor all the activities of the patient in the hospital if it need an emergency treatment then it may helpful in that case more efficiently.

Agents work more efficiently in reality for hospitals. Suppose that when the lab result of a specific patient is coming and it control the treatment according to that lab result because the treatment of the patient is handled according to that test so when the reports are given they manage treatment with respect to that reports. In an under developing country like Pakistan where the number of the doctor are very low as compared to that of the patients in that country artificial intelligence works a lot for the effectiveness and the treatment of the patient it is the very large transformation in today world where artificial intelligence also takes place of the doctors.

But the problem that is caused by the agent in the healthcare is also more dangerous than any other field because this is related to the life of the patient in some case when it take the wrong decision it probably dangerous for the patient health. When the agent make wrong recommendation this is the very large problem and this is that's page where the decision is move from agent to human because human take decision more precisely about other human as compared to artificial agents.

AI for Pakistan’s Youth

The young generation of the Pakistan is not technically more killed and grow themselves in digital community and the young generation is now more professional in the digital world as compared to the previous records because in past no technical person is seen in Pakistan. The students of the computer science in next two to five years build the workplace for themselves that is totally handle by the artificial intelligence. In this modern world all the technical problems that disturb the students in the past for example for generation testing documentation that analysis writing of reports all these things are handled by the agents in the future it means that all things that disturb the students in the pastor covered by the agents and easier their problems.

By all this modern era will each and everything is under the control of the agents we don't need to suppressed our qualities rather we have to show ourselves more efficiently in this digital world. Me as a web developer also think about it very deeply and very differently I have to understand that in that modern era my value is not in



writing the code. The court is written by AI agents more fastly and efficiently. I have to understand that my value is in understanding what the client want so when I build an agent I made its mind according to the desire of the users and the agent works exactly like that of the human my qualities is not in writing the code my quality and my knowledge in making the system with more skills. We have to understand that the agent is the collaborator and the human beside what is the purpose of the collaboration.

“The agent is a collaborator. The human is the one who decides what the collaboration is for.”

Results of the researches

The scale of artificial intelligence is already more significant. The McKinsey global institute in 2024 report that the generative AI and automatic agent has automate the work of the industries to fast that 60 to 70% of the work that is handled by the employee is not shifted towards agents it means that the 60 to 70% of the work that is done by the human now managed by the artificial intelligence. It does not means that 70% of jobs done in night it means that both AI and human work in collaboration but releases the pressure of the human because most of the difficult task is done by the agent. This is not means that the human contribution in these industry is completely stop but it want the mixture of both human and agents.

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The standford human centred AI institute research discovered that the industries that work with the collaboration of the AI agents has completed their task 55% faster than those industries that do not include the contribution of the agent and the performance means output of peace industries is also higher than those that do not involve agents. And other research from MIT discover that the customer service operation that are using automatic agents reduce the average time 34% and also increases the customer satisfaction.

What human do in an AI World?

You should have to become skilled agent collaborator you do not just an agent user. Because there is the great difference between the person who just use the agent for their purpose and the person who understand the all design of the agent and discover how it work and how it take decision and all the output of the agent is effective for him. Basically the person who studied both the failure and success of the agent is probably different from the one who just use the agent for its purpose. Obviously there is the difference between the person who developed the skills and the person who use these skills as a magic. Me as this year student and a web developer friend a lot of time in understanding what is the reason behind the agent working, where the agent season should be come wrong and how I interact my interactions with agent to the well my skills and get more efficient results.

There is no need of human approval for every agent. Because in some cases it fails the purpose of automation. But in case of consequential that affect the health of the people and the employment they have the human who informed and empower to override. This feel comfortable but the pressure to reduce the course and move very fast to increase the scope of automatic action that is currently safe. The responsibility that is for releasing the pressure with technology who understand the system and are in position to design the system appropriately.



The most important decision about Pakistan that how would deploy the AI agents in Pakistan both in the public service , healthcare and financial system. This is obviously a great problem for the people who do not have the knowledge of the technology. This problem is only soul when the educated and technical person come to the field and then they regulate these policies efficiently. According to the European Union AI act it introduce the high risk AI system with transparency and human over side it is the example of the kind of the structure framework for the Pakistan to on digital policy that is need for its development. It can only be possible if technical people come to the field and take part in this conversation.

“The most important decisions about how AI agents will shape daily life will be made largely by people who do not understand the technology. That is a problem only technically literate people can fix — by choosing to engage.”

The future of AI Agents

The development of AI is not increasing linearly but it is accelerating in a very high manner. Those agents that we use today are more efficient than those agents said are used to ears before, and the system that is developed by the agents that we use today is more limited as compared to the system that we use before. The multi tasking agents systems are the most special kind of the agent this is the network of the agent that is used for solving the complex task .Only one agent solve that part of the problem for which it suit, and this is the most emerging technology that is helpful today. Suppose that not one agent is suitable for solving the complex problem but in case of complex problem we are using the combination of agents: for example one research and the other analyse things and other for handling communication and manage information it means that combination of large number of agents will be more suitable for solving the complex problem as compared to single agent and then output is deliver to human for review.

The scope of the physical world is also increasing. The robotic system that we integrate with the AI agent is moving from controlled industrial environment into more general settings. Also we are using automatic vehicle these days this is the most common example where we use the physical AI agents that are used in the real world. We see that in Warehouse automatic system we are using agent driven robotic system it can be used in very large scale to run a mid size business. Every year the boundary that is between the physical world and the artificial intelligence is decreasing.

As a previously discuss that I am also a computer science student and on the same side I am a web developer. I also live in that word that is the creation of the technology. And I also hold both of the identities when mostly I think the system that is run by the AI. The technology work is more admiring as we see that it's all the problems give us the architecture and give everything we want it means that it was very extraordinary day by day. But this question is still a question that we want to build what kind of word by using the technology it is the human question. And the answer of this question requires more technical skills. This technology skills requires very honest and broadly inclusive conversation that I hope this article will cover.

The word that is under the control of the artificial intelligence as not very far but this word is arriving every system by system sector by sector and decision by decision. The question is not to engage with it the question is that we engage with its thoughtfully enough to shape it very well.



About the Author

Alisha Fatima is a Computer Science student and Web Developer with a specialisation in human-computer interaction, AI systems, and full-stack web development. She is passionate about making complex technology concepts accessible to general audiences and about encouraging Pakistan's next generation of technologists to think critically, not just about what they are building, but about what the world they are building it for actually needs. She writes about the intersection of technology, design, and everyday human life.

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