Define AI paradigm to salve a realworld complex problem.

The ultimate aim of artificial intelligence is to create systems that can salve real-world problems. It does this by employing efficient and logical algorithms, utilizing palynomial and differential equations and executing them using modeling paradigms.

An AI paradigm is defined as the pair

An AT paradigm is defined as the pair composed by a concept of intelligence and a methodology in which intelligent computer systems are developed and operated.

Three models of AI mare supervised learning, unsupervised learning and

semi-supervised learning

What are the challenges related to

* Lack of unclerstanding. AT is still a relatively new field and there is much we have yet to comprehend about its inner workings.

· Privacy Concerns.

processing power requirements

· Lack of data

· Unreliable results · Lack of trust · Unclear goals · Technical difficulties. · Encountering technology-related problems in the · development process. · Failing to reproduce lab results in the real • Struggling to Scale AT systems across use · Making erroneous assumptions about AI cap-· Salving the ethical challenges of AI adoption Reason of AI Winter First AI winter The first AI winter occurs as the capabilities of AT programs remain limited, mostly due to the lack of computing power at the time. They can still only handle Trivial versions of the problems they were Supposed to salve > One of the strongest and most well-known arguments against machines ever having real intelligence marked the end of the AI. Winter In 1980, John searle, a philosophy professor at the university of California,

Bekeley, introduced the chines room argument as a response to the Turing Test Second AI winter: the second AI winter began with the sudden callapse of the market for Specialized Al hardware. Shart Note: Garry Kasparov: Charry Kasparov is a russian chess grandmaster former world chess champion and widely considered one of the greatesit chess players in history. Deep Blue:-Deep blue is a computer developed by IBM that gained worldwide recognition in 1997 when it defeated the reigning world chess champion, Garry Kasparov, in a highly publicized match Hlan Turing: Alan Turky was a british mathematician, logician and computer scientist who played a pivotal rode in the development of modern Computing and artificial intelligence John Mc Carthy :-John McCarthy was an American Computer scientist and AT prioneer. He is

renowned for coining the term "ertificial intelligence" and for his foundational work in AI, including the development of the LISP programming language, which played a Crucial role in AI research. · Geoffrey Hinton: Geoffrey Hinton is a British-canadian computer scientist known for his pioneering work in deep learning and neural networks. Often referred to as the "Godfather of deep learning" 610 :-Go also known as Baduk or Weigi, is a strategic board game that originated in ancient china over 2500 years ago. It is played by two players who take turns placing black and white stones on a gridded board with the goal of capturing territory · Lee Sedol > Lee Sedal is a retired south Korean professional Go player who gained world wide recognition for his (ex) exceptional skills in the ancient board game of Go. · Alpha Gio -Alpha Go is a ground breaking artificial intelligence program developed by Deep Mind, a subsidiary of Alphabet Inc.

It gained worldwide attention in 2016. when it defeated the world champion Groplayer Lee Sedol in a historic five-game match.

· Move 37 :-

Move 37 refers to a pivotal and iconic move played by AlphaGio, the artificial intelligence program developed by Deep Mind, in its historic match against the world champion Gio player Lee Sedod in 2016. Move 37 was a surprising and unconventional move that demonstrated AlphaGio's ability to think "Creatively.

· Atlas:

Atlas is a humanoid robat developed by Boston Dynamics, a renowned robatics Company. It is designed for a variety of task's including dynamic mobility.

· Charles Babbage:-

Charles Babbage was a 19th century
British mathematician and inventor known as
the "father of the computer". He designed
the Analytical Engine, a mechanical
general-purpose computing machine.

· Mars Rovers:

Mars Rovers are robotic spacecraft designed for exploration and study

of the planet Mars. Nasa's Mars rovers, such as sojournes, spirit, opportunity, curiosity and perseverance have been instrumental in advancing our understanding of the Martian envisonment geology.etc