## Al vs. Machine Learning vs. Deep Learning Examples:

Artificial Intelligence (AI) refers to the development of computer systems that can perform tasks that would normally require human intelligence.

## Some examples of AI include:

There are numerous examples of AI applications across various industries. Here are some common examples:

- Speech recognition: speech recognition systems use deep learning algorithms to recognize and classify images and speech. These systems are used in a variety of applications, such as self-driving cars, security systems, and medical imaging.
- Personalized recommendations: E-commerce sites and streaming services like Amazon and Netflix use AI algorithms to analyze users' browsing and viewing history to recommend products and content that they are likely to be interested in.
- Predictive maintenance: Al-powered predictive maintenance systems analyze data from sensors and other sources to predict when equipment is likely to fail, helping to reduce downtime and maintenance costs.
- Medical diagnosis: AI-powered medical diagnosis systems analyze medical images and other patient data to help doctors make more accurate diagnoses and treatment plans.

- Autonomous vehicles: Self-driving cars and other autonomous vehicles use AI algorithms and sensors to analyze their environment and make decisions about speed, direction, and other factors.
- Virtual Personal Assistants (VPA) like Siri or Alexa these use natural language processing to understand and respond to user requests, such as playing music, setting reminders, and answering questions.
- Autonomous vehicles self-driving cars use AI to analyze sensor data, such as cameras and lidar, to make decisions about navigation, obstacle avoidance, and route planning.
- Fraud detection financial institutions use AI to analyze
  transactions and detect patterns that are indicative of fraud, such as
  unusual spending patterns or transactions from unfamiliar locations.
- Image recognition AI is used in applications such as photo organization, security systems, and autonomous robots to identify objects, people, and scenes in images.
- Natural language processing AI is used in chatbots and language translation systems to understand and generate human-like text.
- Predictive analytics AI is used in industries such as healthcare and marketing to analyze large amounts of data and make predictions about future events, such as disease outbreaks or consumer behavior.

 Game-playing AI – AI algorithms have been developed to play games such as chess, Go, and poker at a superhuman level, by analyzing game data and making predictions about the outcomes of moves.