



Sri Sathya Sai Vidya Vihar

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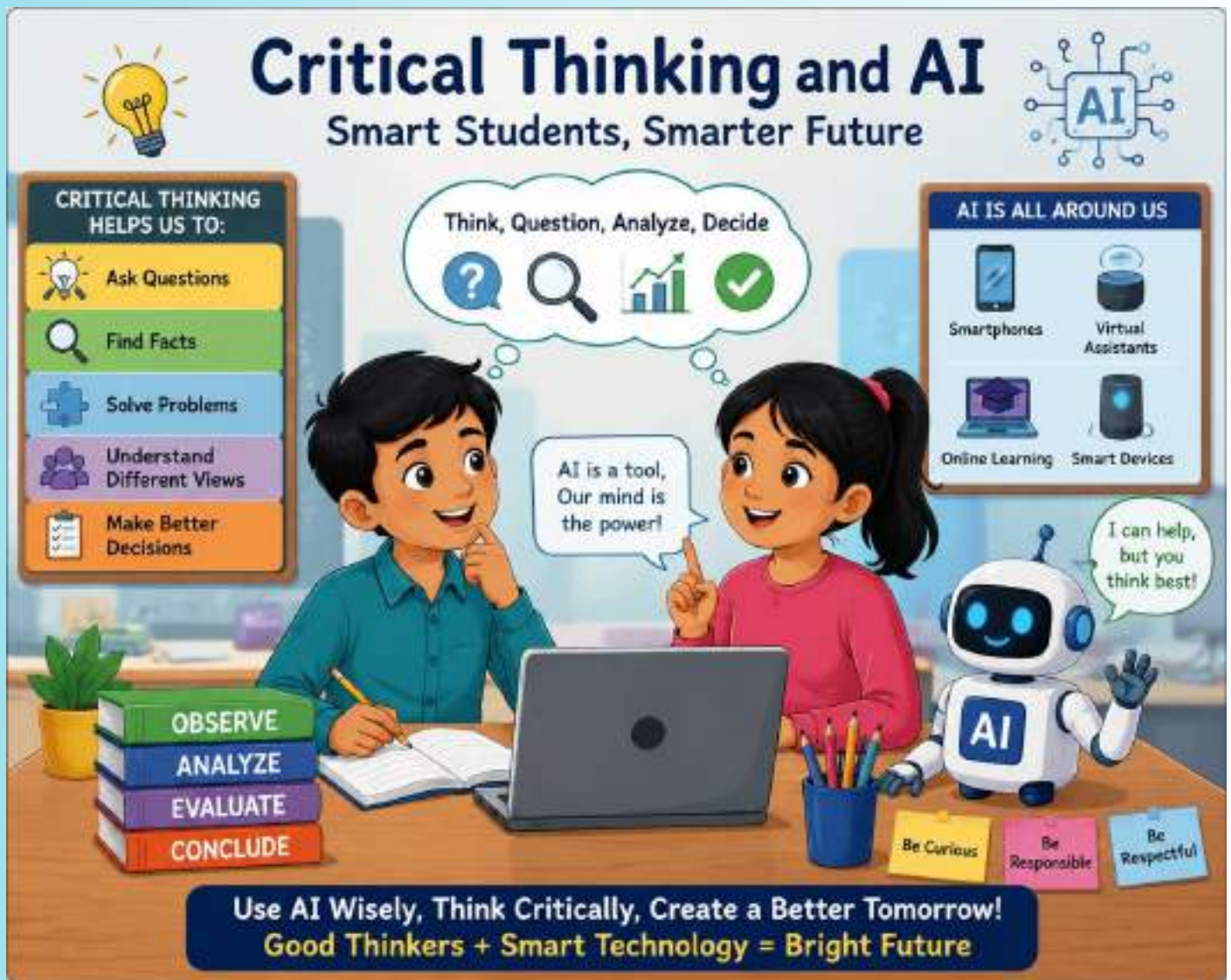
SAI TECH WORLD

EXPLORE • INNOVATE • ELEVATE



THE ONLY LIMIT TO OUR REALIZATION
OF TOMORROW IS OUR
DOUBTS OF TODAY.





Critical thinking is an important skill that helps students think carefully, ask questions, and make smart decisions. It encourages us to analyze information, identify facts, solve problems, and understand different points of view.

- In today's world, we receive information from many sources, so critical thinking helps us decide what is true and reliable. Artificial Intelligence (AI) is a technology that enables computers and machines to perform tasks that usually require human intelligence, such as recognizing speech, answering questions, and making predictions.
- AI is becoming a part of our daily lives through smartphones, online learning platforms, virtual assistants, and smart devices. However, AI is only as effective as the data and instructions it receives. Therefore, critical thinking is essential when using AI. Students should learn to question AI-generated information, verify facts, and use technology responsibly.
- By combining critical thinking with AI knowledge, students can become better learners, creative problem-solvers, and responsible digital citizens. These skills will help them succeed in their studies and prepare them for future careers in a technology-driven world.

Design Thinking

Line Follower Robot Using Arduino – Summer Camp Activity

As part of the Summer Camp activities, students enthusiastically explored the concept of a Line Follower Robot using Arduino. This hands-on session introduced them to the exciting world of robotics by combining electronics, programming, and automation in a simple and engaging way.

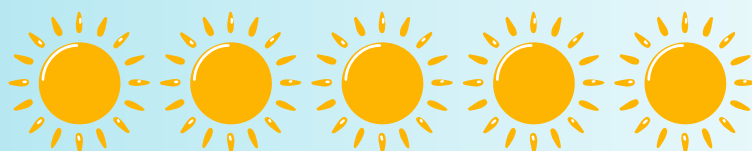
A Line Follower Robot is an intelligent robot that follows a path marked by a black or white line using sensors. It is one of the most popular beginner robotics projects, helping students understand how robots can sense their surroundings and respond automatically.

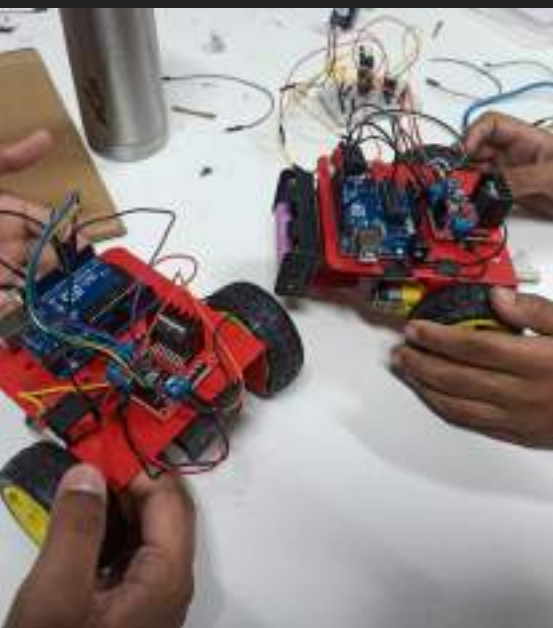
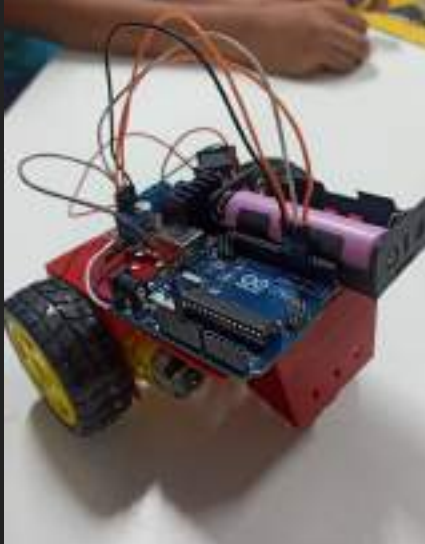
During the activity, students learned that the robot works with the help of an Arduino UNO, IR sensors, DC motors, and an L298N motor driver. The IR (Infrared) sensors are the most important part of the robot, as they detect the line on the ground. White surfaces reflect infrared light, while black surfaces absorb it, allowing the sensors to differentiate between the path and the background.

The Arduino processes the signals received from the sensors and controls the movement of the robot accordingly. If both sensors detect the white surface, the robot moves forward. If the left sensor detects the black line, the robot turns left, and if the right sensor detects the line, it turns right. When both sensors detect black, the robot may stop or change direction depending on the programming. Students also became familiar with the key components used in building the robot, including:

- Arduino UNO
- IR Sensor Module
- L298N Motor Driver
- DC Motors
- Robot Chassis
- Battery Pack
- Connecting Wires

This Summer Camp activity provided students with a valuable opportunity to understand how sensors, coding, and motors work together to create an intelligent robotic system. It was an enriching learning experience that encouraged creativity, logical thinking, and practical problem-solving skills in the field of robotics.





Facial recognition: Uses and Risks

Facial recognition is a way of identifying a person through their face (facial features).

Uses-

- It is most commonly used to unlock a cell phone.
- Your face can be used as a digital passport at places like airports, saving time.
- It helps police find missing people or identify suspects in an investigation.
- It helps sort out photos in apps like Google Photos.

Risks-

- It can't be changed like a password once your biometric data is stolen by a hacker.
- A new haircut or bad lighting might lead to the camera not recognizing you.
- Some systems are less accurate for women or people with darker skin, which leads to discrimination.
- Governments or companies could use it for mass monitoring limiting privacy.



Anushka Rawat
VIII B

My Life With A Robot Friend

A Robot is a machine that can do tasks automatically or with the help of a computer. For Robots, we can say that they are "Science's trained and organised common sense." Robots are made to help humans in many ways, such as with difficult and boring work. Recently, my father gifted me a Robot. My robot's name is Alex. It has two wide eyes, a small nose, and a big mouth. He can speak different languages; he is very intelligent. He has become a good friend of mine. My robot friend can do many tasks quickly and simply. It's really helpful for my daily routine and house chores. When I come back from school, I find my room clean. Then he goes shopping with me and helps me with my homework. He plays games with me. He also reminds me of my medicine and what to eat and what not to eat, as I am diabetic, so I have to take precautions.

Alex reminds me of all that. Alex tells me stories and teaches me what is good and what is bad. He also protects me from danger. He has become my best friend and partner. The Robot (ALEX) is a wonderful gift and an invention of science. I can't imagine my life and tasks without Alex. It's incredible; as it's a robot, I don't have to depend on it completely.



Reyansh Seth V A

Artificial Intelligence and Science

Fortunately, we, Generation Alpha, are among the few generations to witness the powerful combination of Science and Artificial Intelligence (AI). However, it is important to understand the difference between them. Science is the study of the universe through observation, experiments, evidence, and logical thinking. It helps us understand nature, discover scientific laws, and develop technologies for the benefit of society. Branches of science such as physics, chemistry, biology, and astronomy have greatly improved medicine, communication, transportation, agriculture, and many other fields.

Artificial Intelligence, on the other hand, is a branch of computer science that enables machines and software to perform tasks that usually require human intelligence. Semiconductors also play an important role in the development of AI devices. AI can learn, reason, make decisions, understand language, recognize images, and solve problems.

Today, AI is widely used in smartphones, healthcare, banking, education, robotics, transportation, and online services. Science and AI are closely connected. Science provides the knowledge and research methods needed to develop AI, while AI helps scientists analyse large amounts of data quickly and accurately. We hope that, in the future, Science and AI will work together not only for the progress of humanity but also for the protection of our natural resources, because humanity equally needs clean water, clean air, and chemical-free vegetables for a healthy life.



Aratrika Pandey
VIII D

AI in Gaming World

- Game enemies can think, react, and chase players in smart ways.
- Characters in games can talk and behave more like real people.
- Difficulty levels can change automatically based on how well you play.
- Racing games use smart systems to choose faster paths and better moves.
- Sports games become more exciting when teams make clever decisions.
- New challenges and surprises can be added to keep players interested.
- Game makers use smart technology to test games and find bugs faster.



Agrim Reja
VI B



LOADING



Helping the disabled

AI or Artificial Intelligence acts like a digital assistant that helps to bridge the gap between abilities and daily tasks, offering independence to disabled people.

- **Voice or Eyes** – People who have limited mobility can use AI to control home lights, TVs, or computers by speaking (like Alexa) or by eye tracking technology.
- **Giving Voice** – AI technology can translate limited speech patterns or brain signals into clear words.
- **Seeing** – Smart phone Apps use the camera to describe the world, read text aloud & identify products.
- **Mobility Aids** – with the help of AI, disabled people can plan safe routes for moving around with the help of AI-powered wheelchairs and wearables that detect obstacles.
- **Hearing aids** – People who have hearing impairments, AI instantly converts spoken words into text during video calls or conversations.



Shrika Sharma
VII C

AI is helping different disabled people to change their world & move forward in life.

Startups and innovations

AI is changing the world, and a lot of that change is coming from new companies called startups. An AI startup is a company that uses computer programs to fix real problems in new ways. AI startups are important because they are brave and creative.

Big companies move slowly. AI startups are small, so AI startups can try new ideas fast and take risks. For example, some AI startups make phone apps that help farmers check if their plants are sick by taking a picture. AI startups build tools that help doctors find sicknesses earlier. Some

AI startups even make games and apps that make school and learning fun for kids like us. Innovation just means thinking in a certain way. AI startups see a problem that many people have and ask, "Can we use tech to fix this?" One AI startup made a pen that helps kids with dyslexia read better. Another AI startup made a robot that sorts garbage so our planet stays cleaner. These ideas start small, but they can grow and help millions of people one day.

India is becoming a place for AI startups, too. Young engineers and even college students are starting companies that help with farming, health, school, and safety. You do not have to be rich or famous to make something cool. You just need to be curious and not afraid to try. In the future, AI startups will keep changing how we live, learn and work. As students, we can start now by asking questions and learning how tech works. Maybe one of us will build an AI startup someday that helps the world. AI startups will be a big part of our lives in future.



Mahima Jain
VII A

Can Machine be creative?



Have you ever imagined a machine painting a picture, writing a poem, or composing music? It may sound strange, but today Artificial Intelligence, or AI, can do all these things. AI has become a big part of our lives. We use it while watching videos online, searching for information, using voice assistants, and even playing games. As AI becomes smarter, one question is becoming more common:

Can machines really be creative?

Creativity is something we usually connect with humans. When a person writes a story, paints a picture, or creates music, their emotions and experiences are often reflected in their work. A happy memory, a difficult moment, or even imagination can inspire creative ideas. That is what makes human creativity so special and personal. But now AI is also creating amazing things. There are AI tools that can generate artwork in seconds, write songs, suggest story ideas, and even help make movies and video games. Sometimes the results are so impressive that people cannot believe a machine created them. Because of this, many people feel that AI is becoming creative in its own way. At the same time, others believe AI is not truly creative. A machine cannot feel emotions or understand life the way humans do. It does not dream, imagine, or experience the world around it. AI mainly works by studying huge amounts of information created by people. It learns patterns from that data and uses them to create something similar but slightly different. In other words, AI depends on human knowledge to create its work. For example, if a person paints a sunset, the painting may show their feelings, memories, or thoughts. Maybe the sunset reminded them of a peaceful evening with family or a beautiful vacation. But if AI creates the same painting, it does not actually feel anything about the sunset. It simply combines colors and styles based on what it has learned. Even though AI may not think or feel like humans, it is still very useful. It can help artists, students, writers, and scientists by giving ideas and saving time. Many people now use AI as a tool to improve their work and explore new possibilities. Instead of replacing human creativity, AI can support it. In my opinion, machines can help in creative work, but they cannot fully replace human imagination and emotions.

Human creativity comes from the heart as much as from the mind. AI may continue to become more advanced in the future, but the originality and emotions behind human creativity will always remain unique. To conclude, AI is changing the world in exciting ways. Machines can create art, music, and stories, but true creativity is still deeply connected to human feelings and experiences. Therefore, AI should not be seen as a replacement for human creativity, but as a helpful partner that can inspire people to create its work.



Arjun Khandelwal
VI B

Space Exploration

Today, A.I. in Space is like giving your spaceship a super-smart brain. Because of it, space exploration and working feel like directing a sci-fi movie. Today, A.I. has already taken on the role of a smart helper for scientists and astronauts as it.

- Goes through thousands of images taken by satellites and shares only the important ones with scientists, helping predict floods, fires, and even new astronomical activities.
- Checks spaceships for technical issues and even helps in fixing many of them.
- Helps rovers on Mars see rocks and choose a safe path.

And I get thrilled by imagining that in the future, it can go and help build houses ready for humans even before we get there. It can also explore space to more depth, billions and trillions of kilometres away from us. Maybe it will even help us talk to aliens.

In the future, A.I. will also

- Help in space-cleaning -to catch old satellites and junk, keeping space safe for other satellites.
- Be a space doctor for astronauts and suggest treatment when Earth is too far away.
- Best space GPS guiding spaceships through stars and asteroids so astronauts never lose their track and findings.

I am sure A.I. will show wonders in Space. I am very eager and ready to find out!



Hridya Bulani
VII E



Kanvi Shah VII A

Agriculture: Smart Farming

Agriculture is one of the oldest and most important occupations in the world. Farmers work very hard to grow crops and provide food for people. Today, technology is changing the way farming is done. One of the most exciting technologies helping farmers is Artificial Intelligence. AI is making farming smarter, faster, and more efficient.

How AI Helps in Farming

1. Crop Monitoring

AI-powered drones and cameras can monitor crops from the sky. They can detect diseases, pests, or a lack of water in plants. Farmers receive information quickly and can take action before the crops are damaged.

2. Smart Irrigation

Water is very important for farming, but too much or too little water can harm crops. AI systems can check soil moisture and weather conditions to provide the right amount of water to plants. This saves water and improves crop growth.

3. Predicting Weather

AI can study weather patterns and predict rainfall, temperature, and storms. Farmers can plan their farming activities better with these predictions. AI also helps estimate how much crop will be produced.

4. Detecting Plant Diseases

AI tools can identify plant diseases by analyzing pictures of leaves and crops. Early detection helps farmers use medicines only when needed and prevents the spread of disease.

5. Use of Robots and Machines

Modern farms use AI-based robots for planting seeds and harvesting crops. These machines save time and reduce human effort.

Challenges of AI in Agriculture

Although AI is very useful, there are some challenges too. Many farmers cannot afford expensive machines and technology. Some farmers may also lack knowledge about using AI tools. Internet and electricity problems in rural areas can also create difficulties.

AI is bringing a big change in agriculture through smart farming. It helps farmers grow healthier crops, save resources, and increase production. In the future, AI will become even more advanced and useful for farming. By combining technology with agriculture, we can produce more food for the growing population and make farming easier and smarter.



Riddhish Phatak
VIII B



Bhavya Pirodiya VIII B

Healthcare: Saving lives with Technology

The use of Artificial intelligence in the healthcare sector brings about many changes. First, AI technology makes the identification of diseases easier and faster. AI machines can be able to analyze different documents within a shorter time than the normal human process would take. In addition, AI robots are used in hospitals to perform surgeries. In times of emergencies, AI technology is used in forecasting potential diseases in order to provide appropriate treatment. AI technology saves both time and labor by preventing any possible human mistakes. The technology can also be used in organizing the health records of patients and therefore helps in efficient work.



Vedant Singh
VIII C

Disaster Management



Rudrakshi Singh
IX A

Artificial Intelligence (AI) is becoming a powerful tool in managing natural disasters and protecting human lives. Artificial Intelligence is playing a very important role in managing natural disasters and saving lives. AI helps scientists predict disasters like floods, earthquakes, cyclones, and wildfires by studying weather patterns, satellite images, and past records. For example, AI systems can give early warnings before a cyclone or heavy rainfall, allowing people to move to safer places in time. During disasters, AI-powered drones and robots can search for trapped people in dangerous areas where humans cannot easily go. It also helps rescue teams by finding the fastest and safest routes. After a disaster, AI is used to assess damage and provide support for rebuilding affected areas. Although AI cannot stop natural disasters, it makes disaster management faster, smarter, and more effective, helping to protect both human lives and property.



AI IN DISASTER MANAGEMENT

EARLY WARNING AND PREDICTION



Utilize AI to analyze climate data FORECAST EXTREME WEATHER events (eg. floods, hurricanes), and send timely alerts



DISASTER PREPAREDNESS AND PLANNING



AI models to simulate disaster scenarios, identify vulnerable areas, and optimize emergency response strategies



SEARCH AND RESCUE OPERATION



AI-powered drones, robots and thermal imaging for real-time situations awareness and locating survivors.



DAMAGE ASSESSMENT AND RECOVERY



AI analyzes satellite imagery and drone data to rapidly assess structural damage and plan reconstruction efforts.



AI in fake news detection

AI is becoming common in schools, phones, hospitals, and social media. It has both good and bad sides depending on how it is used. Today, many people use AI in their daily lives without even realizing it. From voice assistants to online searches, AI is helping people in many different ways and making work easier and faster.

First, let us talk about the good side of AI.

AI can help detect fake news by checking trusted and authorised sources. It compares information from reliable websites and helps people know whether the news is true or false. This protects people from false information and prevents misunderstandings. Many social media platforms also use AI to stop fake news from spreading quickly online. AI can also help fact-checkers and news channels work faster and more accurately. It can warn users when information seems suspicious or misleading. In emergencies, AI can help prevent panic by stopping false news from spreading among large groups of people. However, AI can also create fake news, edited images, voice recordings, and videos that look real. Sometimes people use AI in the wrong way to spread rumours, cheat others, or harm someone's reputation. This can create confusion, fear, arguments, and serious social or political problems. Innocent people may also face backlash because of false information shared online. Many people believe such news without checking the facts properly, which makes the problem even worse. Fake news can spread very quickly on social media and affect thousands of people within minutes.

In conclusion, AI is powerful and can be both good and bad. It depends on how people use it. Therefore, we should use AI responsibly and always check facts before believing or sharing information online. AI should be used to help society, improve technology, and make life better, not to spread fear or confusion.



Siyana Jain
VII A

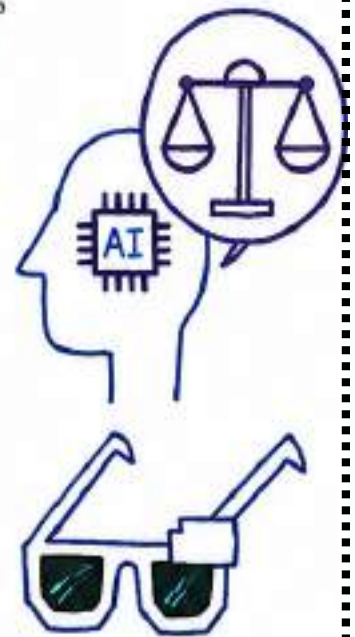


AI should be
smart enough
to help people,
but wise enough
to be fair, safe,
and kind.

RESPONSIBLE AI

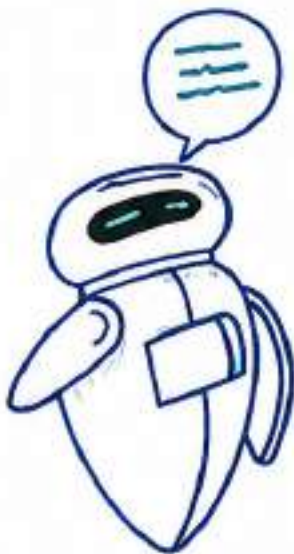
Today, I'm going to share what "Responsible AI" means and why it is important. AI stands for Artificial Intelligence. It is a computer and not a .com. It is used to help us with all kinds of tasks. But to make sure it is used in everyone's best interest, special rules should always be followed. These are called AI principles.

Let's discuss. I am going to explain the PRIVACY principle.



PRIVACY

Privacy means keeping people's personal information secret and safe.



1. **KEEP SECRETS SAFE** - AI shouldn't share your favorite information such as address, phone number, bank account number, etc. with others.
2. **ASK BEFORE COLLECTING** - AI should only collect information about you if it's really needed - and it should be clear about what it's collecting.
3. **STORE IT CAREFULLY** - Any personal AI uses should be protected, like keeping it in a locked box so strangers can't take it.
4. **LET PEOPLE CONTROL IT** - Kids and parents should be able to see, change, or delete personal information that was saved.

AI can be smart - but play your part.
Keep private data out of sight,
from the start !!



Inaya Shah
V C

Creative Canvas



Ira Singh
IV E

AI

AI is a smart machine like humans.
It helps computer think and learn.
We use AI in mobiles and computers.
AI help us to search on the internet.
AI is use in games and robots.
Some AI can talk like us.
AI makes our lives easier everyday.



MR FIXIT



1. MR FIXIT'S ARMS CAN STRETCH.
2. HE IS ALSO A SUPERHERO OF AI.
3. WHENEVER HE IS HAPPY HIS EYES BLINKS, RED LIGHT.
4. HE PROTECTS PEOPLE AND MACHINES FROM DANGER.
5. HE HAS A KIND HEART AND ALWAYS WANTS TO HELP.
6. HE HAS SUPER ENERGY AND NEVER GIVES UP.
7. HE CAN FIX ANYTHING THAT IS BROKEN.
8. HE WORKS TO MAKE OUR WORLD BETTER EVERY DAY.



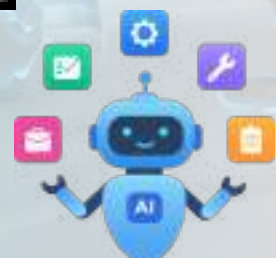
Vaidehi Behani
IV E

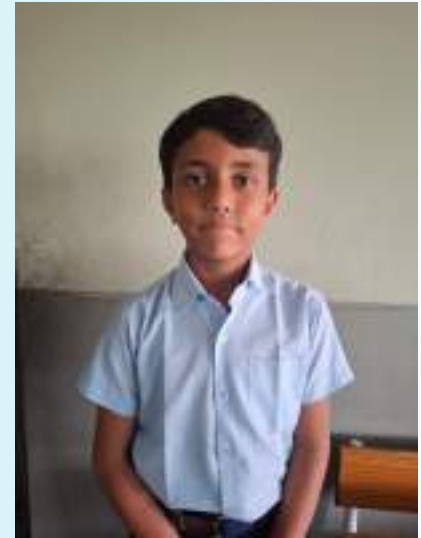
INTELLIGENCE

FROM HUMAN BRAINS TO ARTIFICIAL FRONTIERS

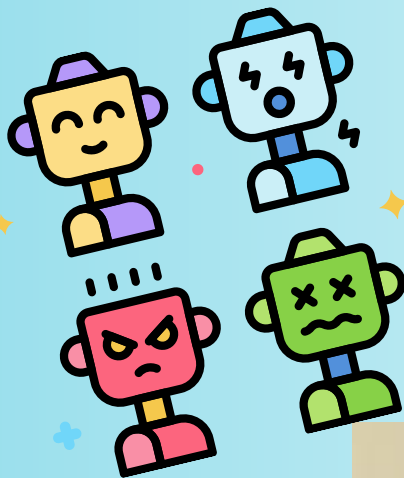
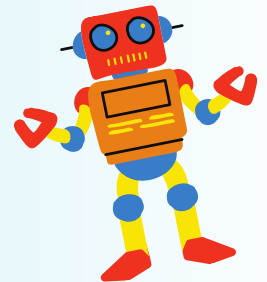


Ananya Kale
IV E





Ayaan Jain
IV B



Ananya Kale
IV E



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“

Education *is for Life,*
not for **Living.**
It is for **Character,**
not for **Career.**

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