

MAGAZINE

JSSPS Tech Magazine

DUBAI أسبـــــوع
AI دبـي للذكـــــاء
WEEK الاصطنـــاعى

@JSSPS

AI for Humanity,
Innovating with Purpose,
Leading with Empathy

Computer Science & AI Department

May
2025

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"AI and Education: Building Innovators for the Future"

Artificial Intelligence (AI) is revolutionizing education by making learning more personalized, inclusive, and engaging.

As Head of the AI Department, I see AI empowering students to think critically, solve real-world problems, and innovate fearlessly.

Our school integrates AI literacy early, blending technical skills with strong ethical values for holistic development.

AI tools help tailor learning experiences, bridge gaps, and boost student success across disciplines.

By fostering creativity, collaboration, and digital fluency, we prepare our students for emerging careers and global challenges.

The Metazine magazine, crafted by students, teachers, and all stakeholders, beautifully reflects our collaborative spirit and innovation journey.

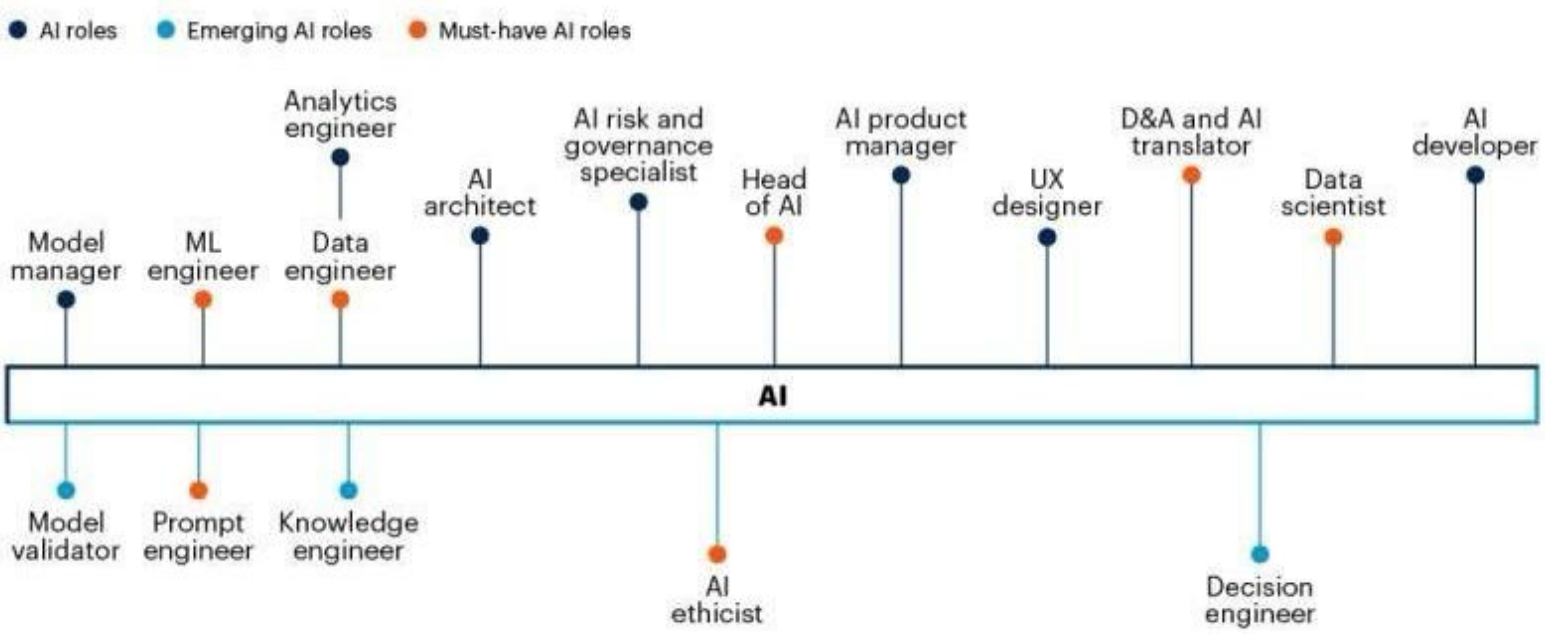
At our school, AI is not just technology—it's a culture of curiosity, resilience, and responsible leadership.

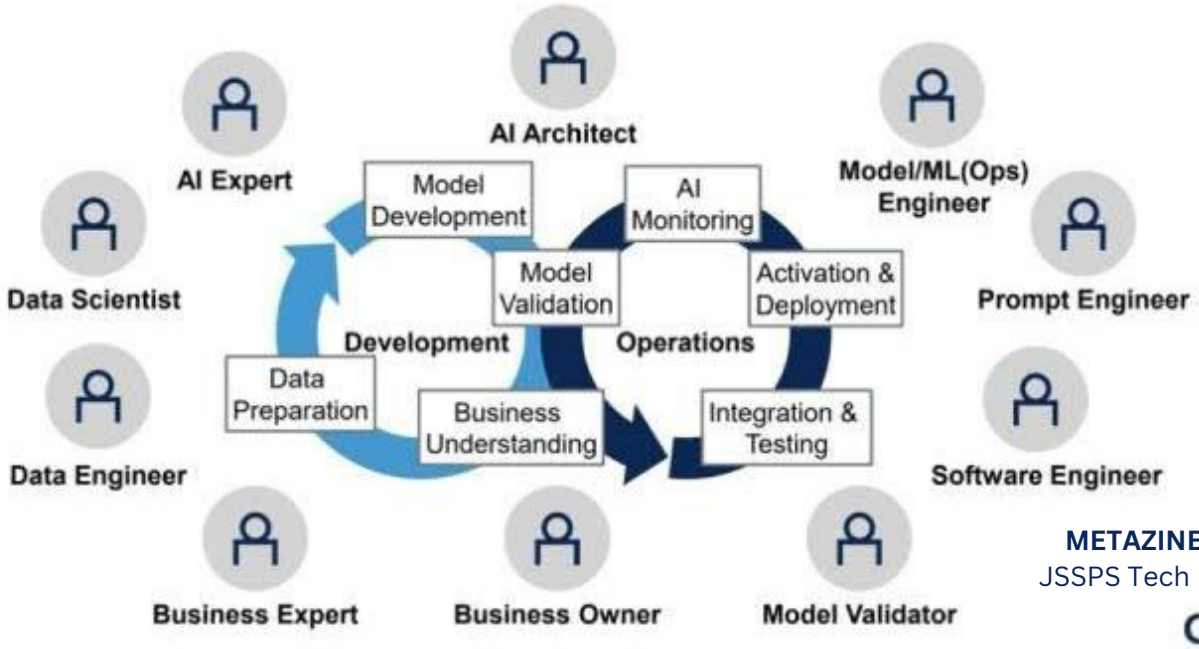
We are proud to nurture future-ready learners who will shape a better tomorrow.

A heartfelt note of gratitude to our respected Principal & Vice Principal for the unwavering support and visionary leadership that continues to inspire us in our AI exploration journey. Your encouragement has been the driving force behind empowering our students to become future-ready innovators and responsible digital citizens.



MS. RAJESWARI V,
HOD CS&AI - JSSPS





Embracing AI Without Losing Our Humanity



MS. BINDHU RAJIV, VICE PRINCIPAL-JSSPS

As we live in this age of Artificial Intelligence (AI) increasingly transforming every nook and corner of our lives, we who are educators, leaders, and lifelong learners arrive at this crossroads. The potential of AI to transform industries from the realm of learning and health care to that of finance management and defense is simply revolutionary. But as we welcome this future with AI, one basic question we must address is: Can we harness the power of AI without sacrificing that which renders us uniquely human—our empathy, ethics, and values?

And as Vice Principal, I believe that question requires our immediate attention and introspective action. It is not really a matter of adopting AI tools but learning to integrate them responsibly into our education system and society as a whole.

AI in Education: A New Era of Personalized Learning

In our schools, AI is already revolutionizing the way we teach and learn. The vision of AI tutors providing personalized learning is already a reality, allowing lessons to be tailored to the individual strengths and weaknesses of each student. Imagine a classroom where no student is ever left behind because AI can identify learning gaps in real-time and offer assistance precisely where it is needed.

But amidst all this revolution, we must not forget the true essence of education. Education is not merely the transfer of information, but the creation of human relationships, the growth of empathy, and the development of emotional intelligence. The role of teachers as mentors, guides, and role models cannot and should not be replaced by machines. AI can help teachers but never replace the human touch that motivates and uplifts the students.

Artificial Intelligence and Creativity: Expanding Horizons, Not Replacing Imagination

As AI opens the door to creating music, artwork, and even narration assistance, the parameters of creativity are expanding. In our schools, AI programs can give students avenues to access their creative potential without risking mistakes, making suggestions, honing techniques, and opening new channels for creativity to shine.

But creativity is not so much about generating new ideas; it is about passion, intuition, and the human spirit. While AI can assist in the process, it lacks the emotional depth that fuels true creativity. As educators, it is our duty to ensure that AI is utilized as a tool for augmenting human creativity and not supplanting it.

AI in Security: Protecting While Preserving Privacy

In a world growing exponentially and in danger of cyber attacks, AI has emerged as a guardian angel of our digital lives. Its ability to predict security risks, identify threats in real time, and neutralize dangers is invaluable. Biometric authentication technologies powered by AI, such as facial recognition and behavioral biometrics, are protecting our online spaces.

But careful use of AI is necessary in security. The ethical implications—anything from privacy intrusions to monitoring problems—must be addressed in the open. Within our institutions, we must weigh deploying AI for security against safeguarding the privacy rights of our employees and students. Ethics must be the anchor of all AI initiatives that we deploy.

Empathy and Ethics: The Heart of Human Intelligence

Empathy—the ability to perceive and experience the emotions of another—is what makes us most uniquely human. Though computers may imitate empathy through being able to sense emotional cues in words and in faces, it is impossible for them to truly *feel*. It lacks lived experience upon which true human compassion is based.

As we are integrating AI with schools and society, it falls upon us that ethical models get infused in each and every segment of AI development. This incorporates keeping decision-making by AI transparent, removing the biases of the algorithms, and most importantly, maintaining human control. Making our students capable, not just of using AI but also of questioning its implications, becomes our duty to accomplish. Literacy of AI needs to be accompanied with ethics literacy.

Balancing AI and Human Values: A Path Forward

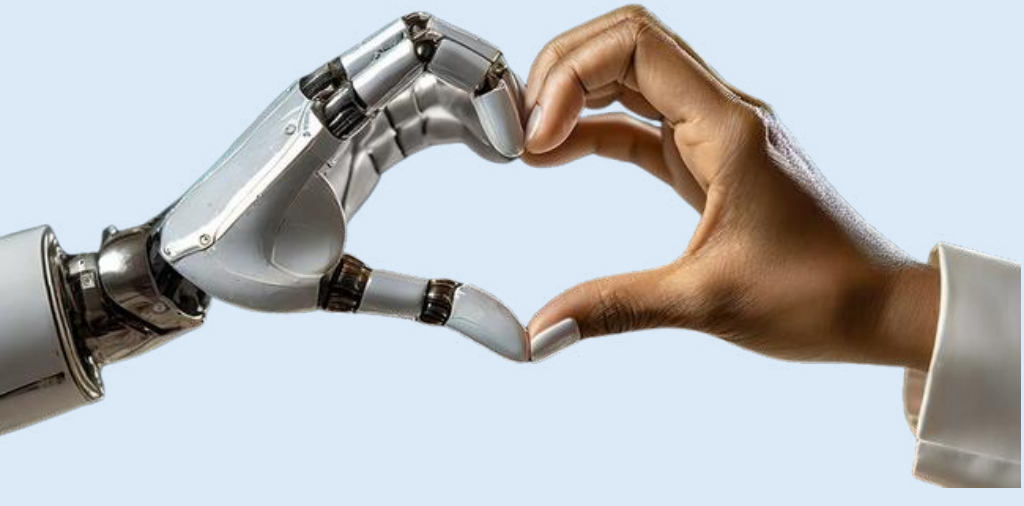
Our work is to hold our excitement for the potential of AI in balance with the upholding of values that make us human. In education, that is using AI to enhance the role of the teacher, not eliminate it. In creativity, it is using AI to inspire, not imitate. And in security, it is protecting our privacy as zealously as we protect ourselves from external dangers.

We have begun this journey in our school by giving our students the capability to excel in an AI-dominated world responsibly. By prioritizing life skills—empathy, ethics, critical thinking—we are not merely preparing them to excel with technology, but to lead with conscience and compassion.

Redefining Progress in an AI-Driven World

Finally, to accept AI without losing our humanity is the quintessential challenge of our times. The true legacy of AI will not lie in the sophistication of its algorithms but in being able to extend what makes us human. As we look forward to the future, let us redefine progress not as machines beating humans, but as a harmonious partnership that adds to our humanity.

By adopting AI in our lives in a responsible and ethical manner, we can develop a future that is not merely technologically advanced but also intensely human—a future where AI is working for us, not vice versa. Let us move ahead with wisdom, empathy, and an unyielding dedication to the values that define us as human beings.





MS. BINDHU RAJIV,
VICE PRINCIPAL-JSSPS

The AI Armageddon is Coming...

How to Survive and Thrive in the Age of Artificial Intelligence

In a world where machines are painting like Picasso, composing music, diagnosing diseases, and writing entire codes in seconds, one question keeps echoing through schools, homes, and headlines:

IS THE AI ARMAGEDDON HERE?

According to recent surveys, 97% of people are nervous about AI. The other 3% might be lying... or already building the next chatbot empire. But let's cut through the panic.

AI isn't here to eat us for breakfast, lunch, and dinner. It's here to disrupt, reshape, and elevate how we learn, work, and think. And guess who's standing at the center of this transformation?

You.

This article is a wake-up call — not to hide from AI, but to face it head-on. So instead of just building a survival kit, how about we build a "thrival kit" (yes, that might just be a new word coined by AI).





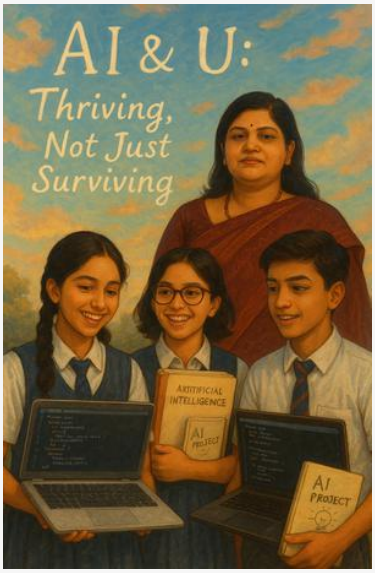
Let's Talk About the Elephant in the Classroom

AI, or Artificial Intelligence, refers to machines designed to mimic human intelligence. These systems learn from data, recognize patterns, make decisions, and even hold conversations. You're likely using AI already when you:

- Ask Siri or Alexa a question
- Binge-watch Netflix recommendations
- Use ChatGPT to explore an idea
- Unlock your phone with facial recognition

With AI progressing rapidly, we see doomsday headlines like:

- "AI will replace teachers and doctors"
- "Robots will take over all jobs"
- "Humans will become obsolete"



But is this the end of the world? Not quite. Like the steam engine or the internet before it, AI is a tool — powerful, game-changing, but controllable. It's not a threat if we understand it, guide it, and most importantly — use it wisely.

Your Thrival Kit: Gear Up for the AI Adventure Ahead

Here's how you — future engineers, designers, doctors, entrepreneurs, and creators — can thrive in this AI-driven world.m orci ex sed purus.

1. Partner with AI, Don't Panic About It

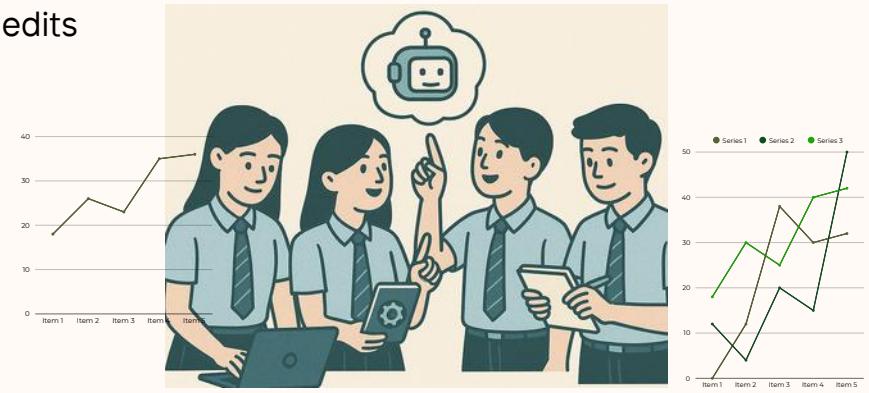
AI is not a monster under the bed. It's a digital co-pilot. Use it to:

- Brainstorm ideas for essays or projects
- Simulate scientific experiments
- Analyze data or generate code
- Get quick feedback and improve your learning

But remember, AI is a tool, not a substitute for your brain. Let it support your thinking — not replace it. If you're just copy-pasting AI outputs, you're not learning. You're limiting your own growth.

Smart use: Asking ChatGPT to help you understand calculus

Unethical use: Submitting AI-written essays without any edits



4. Don't Just Use AI — Create It

You've used chatbots. You've played with filters. Cool. But now it's time to build your own tools.

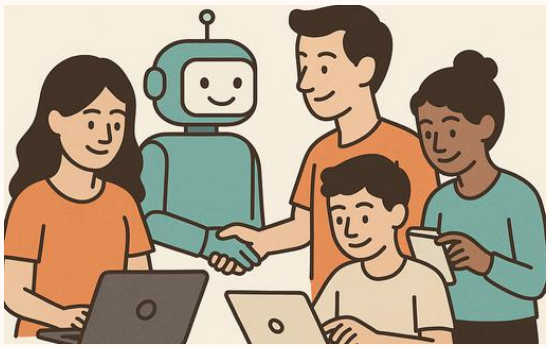
Start asking:

- Can I design a chatbot to support peer learning?
- Can I create an AI model to track climate change data?
- What ethical dilemmas should my AI app consider?

Learn:

- Programming (Python, Scratch, Java)
- Data handling (CSV, Pandas, APIs)
- AI concepts (NLP, computer vision, classification)
- Design thinking and user experience

Your first AI project doesn't have to be perfect. But it needs to start. Because you may fail if you try — but you're guaranteed to fall behind if you don't.



2. Build Power Skills AI Can't Touch

AI is great with numbers and data. But it can't feel, lead, or imagine like you can. That's your edge.

Focus on building:

- Empathy and emotional intelligence
- Critical thinking and ethics
- Collaboration and creativity
- Decision-making and leadership

These "human-only" skills are in high demand. They will make you future-proof — or at least, future-ready.

3. Become a Lifelong Learner

AI is evolving daily. You should, too.

Explore Python. Dive into data science. Join a robotics club. But also, read literature, debate ethics, and engage with global issues.

Because in a world where facts are Google-able, what matters most is your ability to think, connect, and create.

5. Use AI Ethically

AI has no conscience. You do.

As AI creators and users, students must lead with ethics:

Respect privacy and data rights

Avoid spreading misinformation

Check for AI bias and fairness

Question what should be done, not just what can be done

The future doesn't just need engineers. It needs ethical innovators.

DON'T JUST WITNESS THE FUTURE. SHAPE IT.



AI isn't here to destroy humanity. It's here to challenge it — to think smarter, act faster, and lead with values.

So don't be:

- A passive user
- A silent observer
- A copy-paste learner

Be:

- A creator
- A questioner
- A responsible, curious, and powerful innovator

Because the next great AI breakthrough might not come from Silicon Valley. It might come from your classroom.

You don't have to be great to start, but you have to start to be great.

— Zig Ziglar

"

So... did I use AI to write this article?

Hmm... maybe. But the questions, the voice, and the passion — that's all human. That's all you.

- **Write it.**
- **Code it.**
- **Create it.**

The AI future is not just coming — it's waiting for your contribution.



Mega Manjit
Computer Science & AI Teacher



THE GLOBAL PERPECTIVE:
EMBRACING AI IN EDUCATION ACROSS DIVERSE NATIONS

As the influence of artificial intelligence (AI) expands, its integration into educational systems worldwide is becoming essential for progressive learning environments. Numerous countries are experimenting with innovative AI applications, aiming to improve educational experiences and outcomes for students across various contexts.

Personalized Learning Experiences

AI is revolutionizing education by enabling tailored learning experiences that cater to individual student needs. In the United States, advancements such as Carnegie Learning's AI-powered platform help enhance math education, providing personalized pathways that adapt to each learner's pace. Similarly, in India, the online education platform BYJU'S utilizes AI to customize learning experiences for students nationwide, allowing them to engage more deeply with the material.
In Ghana, the potential to implement AI-driven personalized learning strategies could lead to improved educational outcomes and increased participation, while fostering equitable access to quality education for all. The United Kingdom is also harnessing AI's capabilities; the School Information Management System (SIMS) automates attendance tracking, communication, and data analytics, streamlining administrative tasks for educators

Government initiatives

Singapore stands out with its ambitious "Smart Nation" initiative, which aims to position the nation as a global frontrunner in AI by 2030. This multi-faceted strategy fosters collaboration among researchers, government entities, and industry leaders. One of the objectives is to empower teachers to better tailor educational experiences, particularly for students with special needs. Platforms such as Edusave not only manage student data but also track academic performance to optimize resource allocation effectively. Likewise, South Korea embraces AI in education through systems that customize homework and assignments based on individual students' learning tendencies and behaviors. The Ministry of Education's Keris unit is actively designing teacher development programs focused on integrating AI and other advanced technologies. Their Future of Education Center showcases model classrooms, allowing stakeholders to experience cutting-edge educational technologies firsthand.

FINLANDS BOLD COMMITMENT

Renowned for its exceptional education system, Finland has made a significant leap towards embracing AI with a national commitment to providing free online courses. Approximately half of its educational institutions utilize the ViLLE platform, which offers immediate feedback and insights on student assignments. In recent years, Finland has shifted its focus toward becoming a leader in AI, sharing its knowledge through global initiatives, such as a training program that has already educated over a million individuals on foundational AI concepts

The Role of Data and Competition

In China, the government's considerable investments in AI education, including tax incentives for tech companies, have fostered initiatives like Squirrel AI—an adaptive tutoring platform utilizing large data sets and surveillance technologies. However, critics argue that many of these tools prioritize students' performance on standardized tests, leading to a significant disparity where families with financial means have better access to advanced learning resources.



CONCLUSION

Across the globe, the adoption of AI in education reflects a critical shift toward personalized and efficient learning paradigms. Each country, with its unique challenges and opportunities, demonstrates various methodologies for AI integration into educational frameworks. As nations continue to explore and implement AI technologies, the ultimate goal remains clear: to enhance educational accessibility and quality for all students, weaving together an inclusive future for learning.

Ms. Martina Gomes
Upper Primary School Supervisor

A REVOLUTION WITH RESPONSIBILITY



Artificial Intelligence is no longer a futuristic concept—it's actively transforming education today.

From personalized learning to adaptive tutoring, AI helps educators address students' individual needs, making learning more engaging and effective. As you read this, many schools across the globe would've have conducted several CPD sessions to their teachers on AI and how AI cam improve teaching and learning.

However, with great power comes great responsibility. AI brings both opportunities and challenges, and how we use it will shape the future of education.

From my experience, one of AI's greatest strengths is its ability to differentiate instruction. It analyzes students' strengths and weaknesses, adjusting lessons in real time to provide the right level of challenge and support. This allows for more inclusive classrooms where every student can thrive.

Mr. Vishnu Varthan,
Secondary School
English Teacher



"Unlocking Opportunities in the Digital Realm: Navigate the Digital Economy with Strategy."

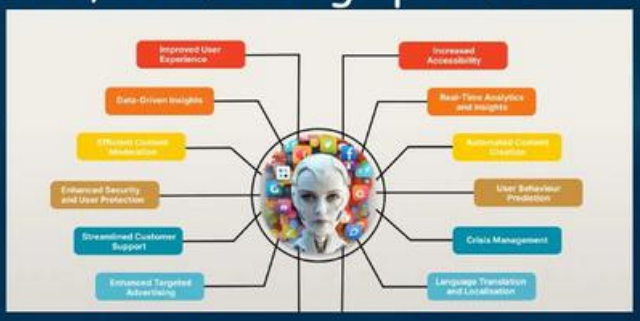
However, AI also raises concerns. Some students misuse AI to generate assignments without true understanding, risking a decline in critical thinking skills. The next skill that every teacher should possess now is detecting AI in the work on students. Infact it is easier than students think. The bigger challenge is ensuring students see AI as a tool for learning, not a shortcut. AI should assist with research and idea development rather than replace creativity and problem-solving.

As AI takes over mundane tasks, human skills like critical thinking, creativity, and adaptability become even more valuable. Schools must invest in AI literacy to ensure students and educators use these tools ethically and effectively. AI should make education more interactive and meaningful—not just faster.

By embracing AI responsibly, we can enhance learning while preserving the human element that makes education truly powerful.

AI and Its Impact on Teenagers Using Social Media

Artificial Intelligence (AI) is transforming social media, influencing how teenagers interact online. AI-driven algorithms personalize content, making platforms more engaging but also addictive. While AI enhances user experience by curating feeds and suggesting friends, it can also create echo chambers, reinforcing specific views and limiting diverse perspectives.



AI-powered chatbots and deepfake technology raise concerns about misinformation and online safety. Additionally, AI-driven facial recognition and data tracking can compromise privacy. However, AI also helps by detecting cyberbullying and filtering harmful content. In my opinion, to navigate AI's influence, teenagers should be aware of digital footprints, fact-check content, and set screen-time limits. Balancing AI's benefits with mindful usage is key to a healthier social media experience.





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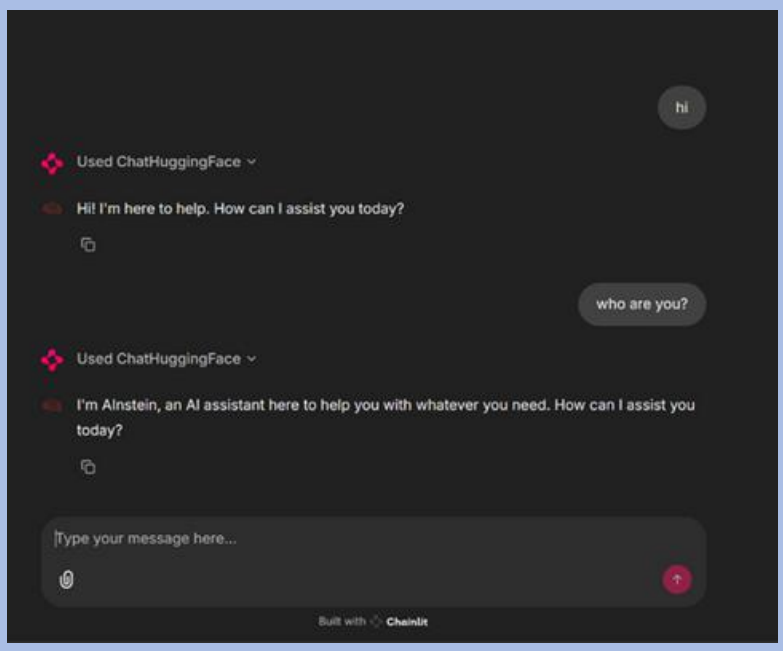
AINSTEIN:

YOUR ALL-ROUND AI ASSISTANT



Adharv Arun-10D

My Project, AInstein is an advanced AI assistant designed for precision and efficiency. Built on the DeepSeek R-1 model, it delivers accurate and insightful responses, making it a versatile tool across various domains.



THE INNOVATION BEHIND AINSTEIN

Created to bridge AI capabilities with real-world problem-solving, AInstein leverages advanced natural language processing to offer enhanced understanding, adaptability, and reliability. Unlike conventional chatbots, it excels in both general queries and specialized tasks.

KEY FEATURES

01 Superior Language Understanding – Accurately interprets context and intent.

02 Customizability – Adaptable for diverse applications.

03 Scalability – Handles multiple queries efficiently.

04 Ethical AI – Prioritizes privacy, unbiased responses, and security.

APPLICATIONS ACROSS INDUSTRIES

AInstein supports:

1. Education & Research – Summarizing articles, generating insights.
2. Software Development – Debugging, code generation.
3. Healthcare Support – Providing reliable information.
4. Business & Productivity – Data analysis, task management.
5. Future Prospects

With AI advancements, **AInstein's** potential continues to grow. Future enhancements may include voice recognition and real-time decision-making, solidifying its role as a leader in AI-driven innovation.

Project GitHub Link: https://www.github.com/adharvarun/AInstein

Pravit Santhosh : Internship





During the summer vacation of 2024, Pravit visited the Kennedy Space Center in Cape Canaveral, Florida, a vital component of NASA and a significant contributor to the advancement of space technology in the United States. As one of NASA's ten field centers, it serves as the primary launch site for human spaceflight. Notably, it is the only location in the United States where visitors can witness rocket launches and space shuttle launches. Pravit explored various space travel equipment, original rockets and numerous simulations .



METAVISIONARIES

November 22, 2024

TO: To Whom It May Concern
FROM: Dr. James L. Green - Chairman, Metavisionaries
SUBJECT: Recommendation for Pravit Santhosh

I am delighted to write this letter of recommendation for Pravit Santhosh in recognition of his exceptional performance and contribution during the Space & Generative AI Internship Program (SGAIP) offered by Clevered and Metavisionaries.

Before joining Metavisionaries, I dedicated over 40 years at NASA, contributing to more than two dozen transformative missions and holding roles such as NASA's Chief Scientist and Director of Planetary Science. I have also had the privilege of teaching at the International Space University (ISU) since 1992. Since my retirement from NASA in December 2022, I have continued to engage in shaping the next generation of innovators through programs such as SGAIP, where I first encountered Pravit.

During the course, Pravit displayed remarkable intellectual curiosity and a profound understanding of artificial intelligence applications in space science. His ability to merge technical expertise with innovative problem-solving was evident in his work on projects exploring the use of AI for sustainable space missions and data analytics. Pravit excelled in collaborative settings, bringing thoughtful insights and an infectious enthusiasm that inspired the entire team.

His dedication to advancing knowledge in the intersection of space exploration and AI is matched by his academic rigor and professional growth. His exceptional intellect, determination, and dedication to pushing boundaries makes him a standout individual with significant potential to contribute to technological advancements and beyond.

In summary, I strongly recommend Pravit Santhosh for any opportunity that aligns with his passion for space science and AI. I am confident that he will continue to push boundaries and make significant contributions to the field.

Sincerely,

James L. Green

James L. Green

UNIVERSITY OF OXFORD
DEPARTMENT OF EDUCATION

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UNIVERSITY OF OXFORD

To whom it may concern,

It gives me immense pleasure to recommend Pravit Santhosh, who has undergone the three months Artificial Intelligence Internship Program under my guidance, for admission to your reputed institution. It was during my interactions with Pravit Santhosh that he described his proposed project to me and also presented his completed project.

Throughout our engagement, I was impressed by his project, and particularly his goal of using AI and Machine Learning to provide a service for the community by creating an app called **Traffic Sign Classifier** that helps all differently-abled people in the community, the elderly, and technological novices access technology. I was delighted to see that Pravit Santhosh, at the age of thirteen, has developed skills and a passion to innovate and solve real-world problems.

He creatively used Deep learning and Ipython widgets User Interface in Python and succeeded in completing his project. When he encountered technical difficulties in his project, he very wisely tried to follow suggestions in the Python reference material, and when that failed, he went to Stack Overflow and to GitHub sites to look at community forums for his answers. He managed every component of his project very beautifully and everything is in working order. As the next step, he can try to improve the accuracy and efficiency of traffic sign detection by implementing advanced deep learning algorithms and extending the application to recognize signs in live environments or from video data. As of now, he has developed a Traffic Sign Classifier project that allows users to upload images containing traffic signs for detection.

Given that he only had three months to conceive, implement, and present the project, I was impressed by his efforts to integrate all of the planned components into the project.

From the other instructors, I have heard that Pravit Santhosh is a diligent and disciplined student. He has a very clear understanding of the concepts and does not hesitate to ask questions to clear his doubts. He possesses a curious and growth mindset that has enabled him to understand every coding concept and connect them to create useful apps. He doesn't get disappointed when there is an error in the code; instead, he feels all the more motivated to solve it. He has a lot of patience and yet is enthusiastic to take on new challenges. Pravit Santhosh's thoughts are sorted which helps him to create projects that are meaningful and that address real-life problems. He is filled with energy and also channelizes his energy in a creative way. When he takes on something, he puts his heart and soul into completing it the way he had envisioned it. That is what he did for his internship project. He never shies away from asking for help and he is a great team player too!

I don't doubt any of this.

If I can be of any further assistance, or provide you with any further information, please do not hesitate to contact me.

Best regards,

Ken M. Kahn

Dr. Ken Kahn, Senior Researcher(Retd.), Department of Education, University of Oxford

31/10/2023

Pravit completed a Personal Finance Tracker project using AI with ChatGPT (July 6 - August 20 2024), directed by Dr. Ken Kahn, Senior Researcher at Oxford University in London.


clevered

AI with ChatGPT

This certificate is given to

Pravit Santhosh

for successfully completing his four-week '**AI with ChatGPT**' program (6th July 2024 to 20th August 2024). He has created a **Personal Finance Tracker** App using AI with ChatGPT under the guidance of Dr. Ken Kahn, Sr. Researcher(Retd.), Oxford University, London.

Shiksha Kohli
Business Head

Ken Kahn
Senior Researcher
University of OXFORD

Smita Bansal Sharma
Head- Academics & Internship

13.08.2024

Pravit completed Intel's AI for Youth Program from June 3rd to June 18th, 2024, and developed urban waste management .


intel digital readiness +

Certificate of Accomplishment

Empower Lives with Technology

Pravit Santhosh

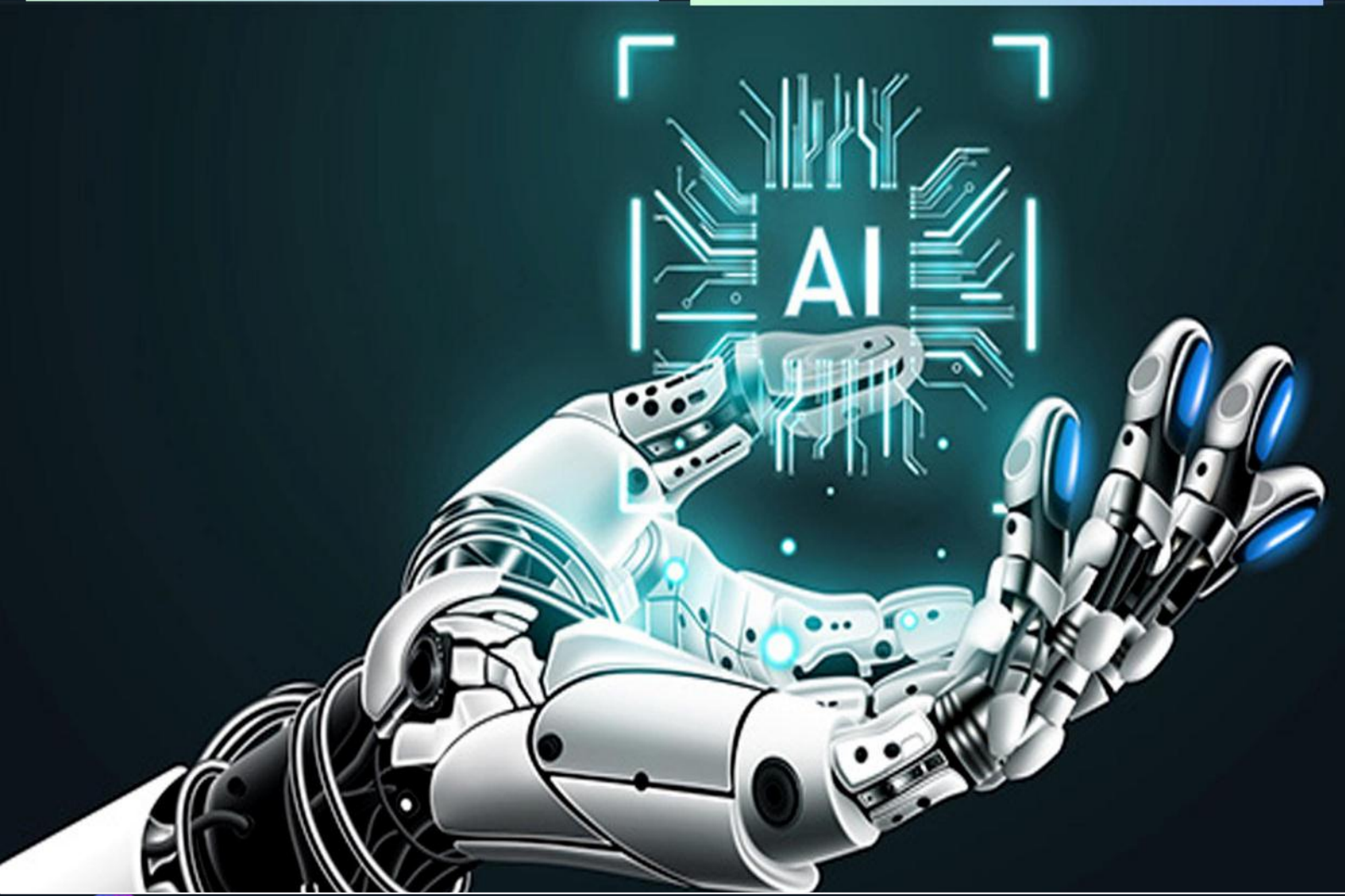
has completed **AI for Youth Program** from June 03 to June 18, 2024 and has built **Urban waste management**.

An AI-enabled chatbot developed educate and assist users on urban waste management practices.

Shweta Khurana
Senior Director – Asia Pacific & Japan Government Partnerships & Initiatives
International Government Affairs Group
Intel

Dr. Biswajit Saha
Director
Skill Education
Central Board of Secondary Education

AIEVA



Young Techies' Corner

SMART TECH, SMARTER WORLD

DECODING AI



INTRODUCTION

Artificial Intelligence (AI) is revolutionizing industries, enhancing human capabilities, and reshaping interactions with technology. It refers to machines that can think, learn, and solve problems, simulating human intelligence. From self-driving cars to virtual assistants like Siri and Alexa, AI is now an essential part of everyday life. Understanding AI

AI enables machines to perform tasks that typically require human intelligence, such as reasoning, learning, and per ception. It is broadly classified into:

Narrow AI (Weak AI): Designed for specific tasks, such as facial recognition and recommendation systems.

General AI (Strong AI): A theoretical AI with human-like cognitive abilities, capable of independent decision-making.

Key Components of AI

AI consists of various technologies that contribute to its functionality:

Machine Learning (ML): Allows computers to learn from data and improve over time.

Natural Language Processing (NLP): Helps machines understand and process human language, used in chatbots and translation tools.

Computer Vision: Enables AI to interpret images and videos, used in facial recognition and autonomous vehicles.

Robotics: Integrates AI into machines for automation in industries like healthcare and manufacturing

Applications of AI

Healthcare: AI assists in disease diagnosis, personalized treatment, and robotic surgeries.

F**inance:** AI-driven systems detect fraud, automate trading, and provide financial insights.

Education: AI-powered platforms enhance learning with personalized content and virtual tutors.

Transportation: AI is crucial for self-driving cars, traffic optimization, and road safety.

Customer Service: AI chatbots and virtual assistants offer 24/7 support, improving user experience.

Challenges and Ethical Concerns

Despite its benefits, AI poses several challenges:

Job Displacement: Automation may replace certain jobs, requiring workforce adaptation.

Bias and Fairness: AI can inherit biases from training data, leading to unfair outcomes.

Privacy Risks: AI-driven data collection raises privacy concerns.

Security Threats: AI can be misused for cyberattacks and misinformation.

The Future of AI

As AI continues to advance, developments in quantumcomputing, ethical AI, and regulatory frameworks will shape its future. Governments and organizations are working to wards responsible AI deployment to ensure its benefits outweigh the risks.

AI is no longer just a futuristic concept—it is here, driving innovation and changing the world. Its potential is limit less, but ethical and responsible development will be key to ensuring a positive impact on society.



Ethan Abraham Aby

AI-DRIVEN CARBON CAPTURE:

The Future of Fighting Climate Change

WHAT IS IT?

AI is revolutionizing carbon capture technology, which removes harmful CO_2 from the air to slow down global warming. These AI-powered systems are designed to trap, store, and even reuse CO_2, making the air cleaner and reducing the effects of climate change.

HOW DOES AI HELP?

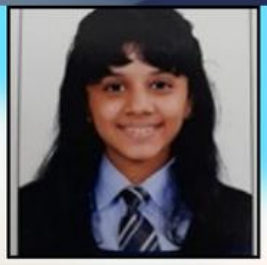
- Monitors CO_2 Levels: Uses satellites and sensors to track carbon emissions in real time and detect pollution hotspots.
- Finds Optimal Locations: Analyzes climate patterns and industrial activity to place carbon capture plants where they are most effective.
- Optimizes Efficiency: Improves filtration methods, reduces energy use, and lowers costs to make carbon capture faster and more scalable.

WHY IS IT REVOLUTIONARY?

- Slows Down Global Warming: If used worldwide, AI-powered carbon capture could reverse climate change by removing billions of tons of CO_2.
- Turns CO_2 into Fuel: Some AI-driven projects are converting captured CO_2 into clean energy instead of just storing it.
- Saves the Planet: This technology is one of the only ways to actively reduce pollution instead of just preventing it.

COOL FACT:

Companies like Climeworks and CarbonCure are already using AI to absorb CO_2 from the air and store it underground or turn it into useful materials like concrete!



LAETITIA SHARMA- GR 6B

Young Techies' Corner

HOW AI IS TRANSFORMING OUR WORLD

Artificial Intelligence (AI) is one of the most exciting andrapidly growing fields in technology today. It refers to the ability of machines to think, learn, and perform tasks that usually require human intelligence. From smartphones to self-driving cars, AI is shaping our future in incredible ways.



Human interaction with AI



AI in daily life



AI acorss all sectors



Ovi Siddhesh Padalkar



AI for Space in UAE

In 2017 the UAE launched the UAE strategy for artificial intelligence. The goal is to make AI a key driver of national development. The idea covers areas like health, transportation, education, environment and government services, with a focus on promoting AI into the daily life of the country.

- Historic Launch (2019): **Hazza Al Mansouri** became the first Emirati astronaut, traveling to the ISS on Soyuz MS-15.
- Global Training: Completed 1,400+ hours of training at top space centers, including exposure to AI tools and simulations.
- Tech & AI Readiness: Learned to operate advanced equipment, some powered by AI for monitoring and diagnostics.
- Science in Space: Conducted 31 experiments, including projects linked to AI and STEM education for UAE students.
- UAE Space Vision: His mission kickstarted UAE's space journey, inspiring future use of AI in space exploration.



Prajna Poorli Krishnakumar



Chriss Nixon

Apple Intelligence: Smarter AI, Built for Privacy

Apple has long been known for its commitment to innovation, user experience, and, most importantly, privacy. With the introduction of Apple Intelligence, the company is redefining artificial intelligence by integrating it seamlessly across its devices while maintaining the highest standards of security. Unlike other AI systems that rely heavily on cloud-based processing, Apple Intelligence is designed to work primarily on-device, ensuring that users benefit from powerful AI-driven features without compromising their personal data. This approach sets Apple apart from competitors like Google, Microsoft, and OpenAI, which prioritize cloud-based AI solutions.

Key Features of Apple Intelligence

1. A Smarter, More Context-Aware Siri

Siri, Apple's virtual assistant, has been a core part of iOS for over a decade, but Apple Intelligence is taking it to the next level. Siri is now:

More Conversational: With improved natural language processing, Siri can hold better conversations, understand context across multiple queries, and follow up on previous requests.

More Integrated: It can seamlessly navigate across apps, allowing users to compose emails, schedule calendar events, or send messages with more precision.

More Personalized: Siri adapts to user habits, offering proactive suggestions and more accurate responses based on past interactions.

2.Intelligent Photo and Video Editing

Apple has always prioritized visual experiences, and Apple Intelligence is further enhancing how users manage and edit their photos and videos.

Some of the new AI-driven capabilities include:

Advanced Photo Search: Users can search for specific images using natural language queries like Show me pictures from last summer vacation with a blue sky.

Object Removal: AI can seamlessly remove unwanted objects or people from photos, making editing faster and more efficient.

Auto-Highlight Reels: Apple Intelligence can analyze videos and automatically create highlight reels based on key moments.

These AI-powered tools make it easier than ever for users to organize, edit, and relive their memories without needing complex third-party apps.

3. Personalized App Interactions and Smart Suggestions

Apple Intelligence goes beyond specific apps ,it learns user habits and adapts interactions accordingly. This means:

Calendar and Reminders suggest optimal meeting times based on past scheduling patterns.

Messages and Mail recommend the most relevant contacts based on frequent conversations.

The device proactively suggests shortcuts for routine actions, like launching a workout playlist before a morning run..

GENERATIVE ARTIFICIAL INTELLIGENCE

This field has exploded recently, driven by advancements in transformer models and increased computational power. Generative AI models can create entire new content, from realistic images and captivating music to coherent text and functional code. Models like DALL-E 3, Midjourney, and Stable Diffusion have revolutionized image generation, allowing users to create stunning visuals from simple text prompts. Similarly, large language models (LLMs) like GPT-4 are demonstrating remarkable abilities in writing, translation, and even creative storytelling, pushing the boundaries of what machines can achieve.

The implications of generative AI are vast and span numerous industries. In creative fields, it's democratizing content creation, enabling individuals with limited artistic skills to bring their visions to life. In software development, it's automating code generation, potentially speeding up development cycles. In healthcare, it's being explored for drug discovery and personalized medicine. However, with this power comes ethical considerations, such as the potential for misuse in generating deepfakes or spreading misinformation. The ongoing challenge is to harness the benefits of generative AI while mitigating its risks, ensuring responsible development and deployment.

----- BY PRISHITA MATHUR, 6B -----



The AI-Powered Classroom

AMAIRA 6D





Step into the AI-powered classroom of the future, where learning is personalized, engaging, and efficient. Artificial intelligence is no longer a futuristic concept; it's transforming education as we know it.

Imagine a classroom where AI tutors provide individualized support, adapting to each student's pace and learning style. AI algorithms analyze student data to identify strengths and weaknesses, creating personalized learning paths that ensure no one is left behind.

Teachers in this AI-augmented environment are freed from tedious tasks like grading and lesson planning.

AI handles the administrative burden, allowing educators to focus on what they do best: fostering creativity, building relationships, and providing individualized support.

The AI-powered classroom is not just about personalized learning; it's about creating a dynamic and engaging learning experience. AI can power virtual reality simulations, bringing lessons to life and allowing students to explore new worlds and concepts in immersive ways.

While the potential benefits are vast, ethical considerations must be addressed. AI systems must be fair, unbiased, and protect student data privacy.

The AI-powered classroom is not a distant dream; it's a reality that is taking shape today. By embracing the power of AI, we can unlock a new era of learning where every student has the opportunity to thrive.



We should not use AI for wrong purposes such as hacking rather we should use AI to make our daily task easier.

Uwais Ahmed



With all the day bay increasing use of AI listed above, it can seem like a no-brainer to adopt AI for business immediately. But it's also prudent to carefully consider the potential disadvantages of making such a drastic change. Adopting AI has a myriad of benefits, but the disadvantages include things like the cost of implementation and degradation over time should also be considered by organizations during adaptation of AI.

Ayushman Kahali



If you think AI is so good than you should be aware of the disadvantages too such as ...

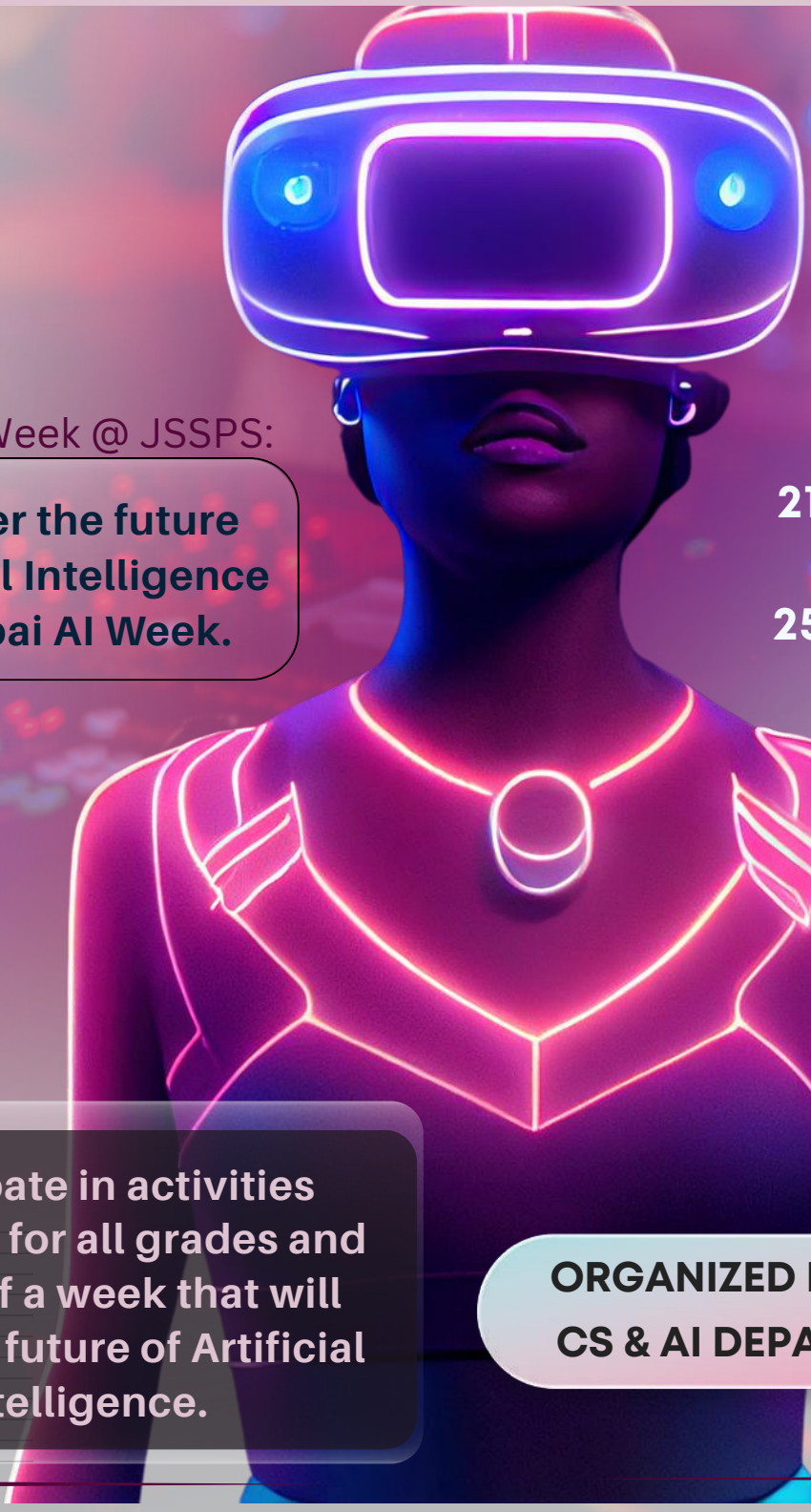
1. Job displacement– Automations in tasks can lead to job losses in certain industries , particularly in low-skill positions .
2. High costs-developing and maintaining AI requires significant financial investments .
3. Ethical concerns-AI can be biased if trained on biased data, leading to discrimination .

Prajna Poorli Krishnakumar

AI EXPLORERS IN ACTION

DUBAI أسبـــــوع
AI دبـي للذكـــــاء
WEEK الاصطنـــاعي

IMMERSIVE AND CREATIVE LEARNING FOR ALL



Dubai AI Week @ JSSPS:

Discover the future of Articial Intelligence at Dubai AI Week.

21/04/2025 to 25/04/2025

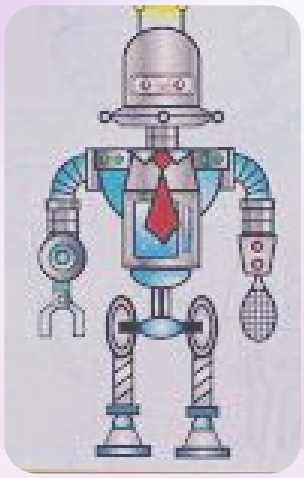
Participate in activities organized for all grades and be part of a week that will shape the future of Artificial Intelligence.

ORGANIZED BY JSSPS CS & AI DEPARTMENT



Dubai AI Week @ JSSPS: Dubai AI Week @ JSSPS: Dubai AI Week @ JSSPS: AI for Humanity, Innovating with Purpose, Leading with Empathy

As part of **Dubai AI Week, JSS Private School** hosted **AI Explorers in Action:** Immersive and Creative Learning for All — a week-long initiative designed to bring Artificial Intelligence to life across all grades through meaningful, hands-on experiences.

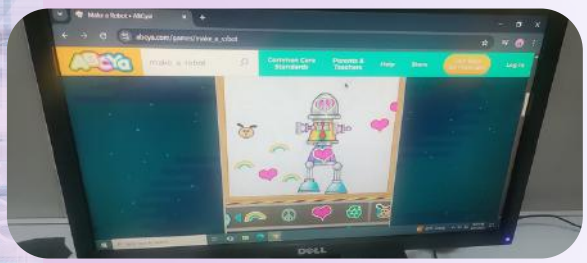


To ignite curiosity, creativity, and ethical awareness in students by empowering them to explore, experience, and express Artificial Intelligence through hands-on, age-appropriate activities—fostering future-ready skills, empathy, and innovation across all grade levels.

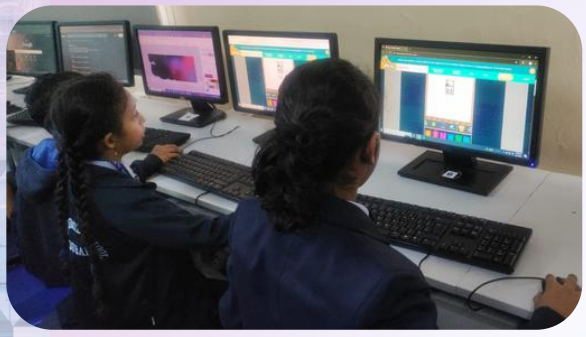
PHASE-WISE ACTIVITY HIGHLIGHTS:

KG:

- RoboBuddy: My First Robot Friend, RoboBuddy Rescue Mission
- → Introduction to smart machines and basic AI actions







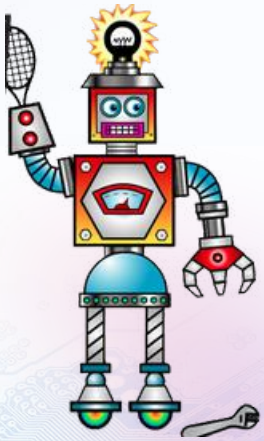


DUBAI أسبـــــوع
AI دبـي للذكـــــاء
WEEK الاصطنـــاعي

Grades 1–2 (Lower Primary):

- I Spy With My AI Eye, AI Art Corner
- AI Skit Assembly
- Visual sorting, pattern recognition, and creative AI expression



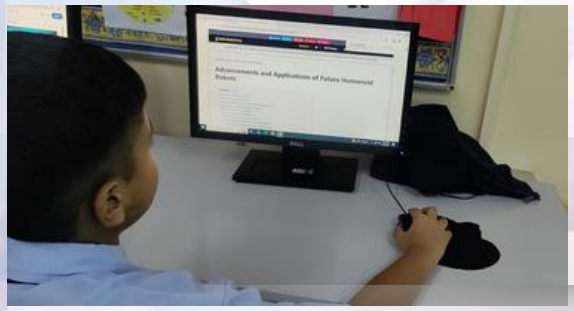


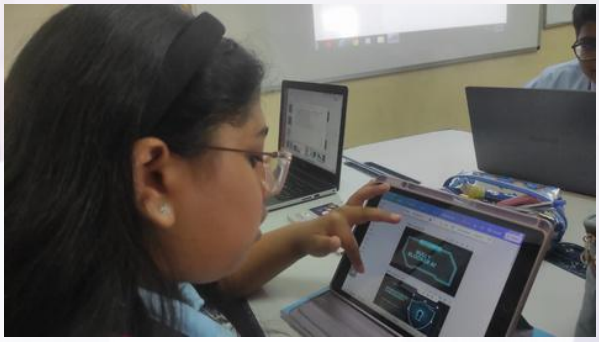
DUBAI أسبـــــوع
AI دبـي للذكـــــاء
WEEK الاصطنـــاعي

Grades 3–5 (Upper Primary):

- Code & Play: The AI Way, Family AI Challenge, AI Art Corner, AI Skit Assembly
- Basic coding, AI at home, and imagination through generative AI

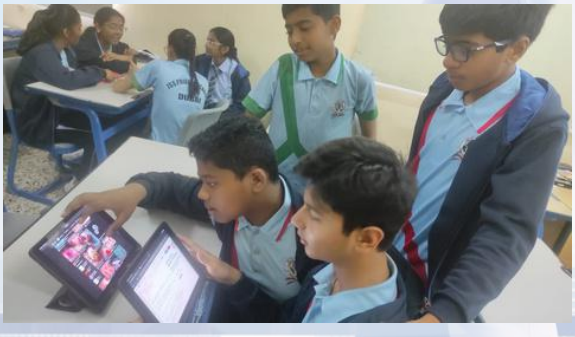


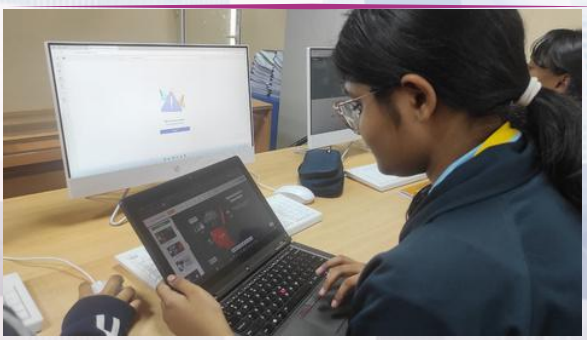




Grades 6–8 (Middle School):

- Cyber Shield Detectives, Short Film Contest, She Leads AI, AI Wall, AI Skit Assembly
- AI in digital safety, storytelling, and ethical innovation













Grades 9-12 (Senior School):

- AIREP (Family AI Challenge)
- She Leads AI
- Smart Parking Spot Finder
- AI Sustainability Projects



- AI Wall/Idea Tree
- AI Skit Assembly
- Student Projects on real-life AI applications











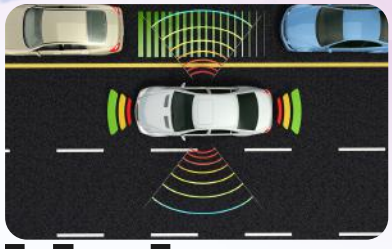








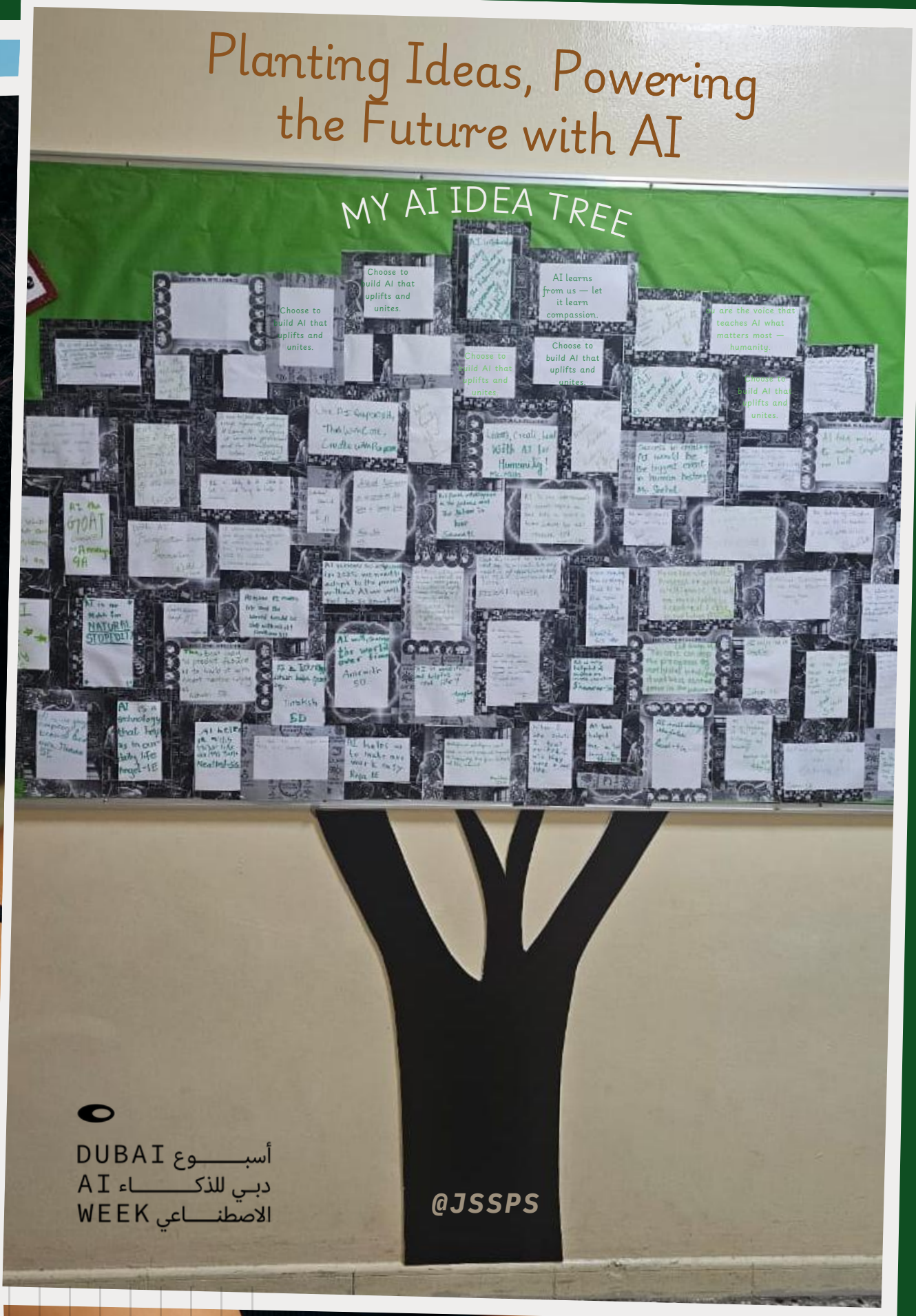




The Team Behind



Dubai AI Week @ JSSPS:



DUBAI أسبـــــوع
AI دبـي للذكـــــاء
WEEK الاصطنـــاعي

Empowering Young Minds: Dr. Chidananda Gowda's Address During Dubai AI Week at JSS Private School

About Dr. K. Chidananda Gowda

Dr. Chidananda Gowda is a highly respected figure in the fields of Computer Science, Artificial Intelligence, and Engineering Education. He is the former Vice-Chancellor of Kuvempu University, Karnataka, and served as the Dean of Engineering at Mysore University. His academic journey includes post-doctoral research at prestigious institutions such as NASA, New York, USA, and INRIA, Paris, France.

Dr. Gowda has authored over 100 research papers and 12 books in both Science and Technology and Kannada Literature, earning multiple accolades, including the Karnataka Sahitya Academy Award and the Kannada Rajyotsava Award. His pioneering work extends to Kannada software development and promoting technology accessibility in regional languages.

With decades of contributions to AI research, engineering education, and scientific communication, Dr. Gowda remains a strong advocate for ethical AI innovation and empowering young minds to shape the future responsibly.

As part of the AI Explorers' Week celebrations, JSS Private School had the privilege of hosting Dr. K. Chidananda Gowda, a distinguished academician and AI expert, for a special guest session on 22nd April 2025.

Dr. Gowda addressed students of Grades 9–12 on the insightful topic of "10 Levels of Artificial Intelligence", offering a deep dive into the progressive journey of AI — from basic automation to self-aware systems.

Through real-world examples, future predictions, and ethical reflections, Dr. Gowda captivated the audience, inspiring students to not only understand AI but to envision their role as future innovators and leaders in the AI-driven world.

The session was interactive, thought-provoking, and left students motivated to explore AI responsibly and creatively. The school community extends its heartfelt gratitude to Dr. Gowda for his valuable insights and inspiring presence during our AI Week celebrations.











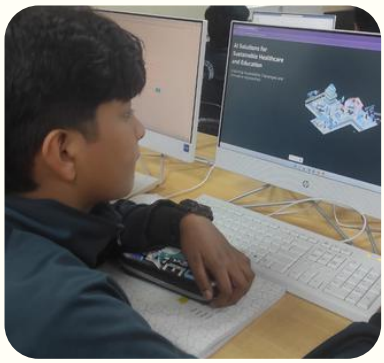


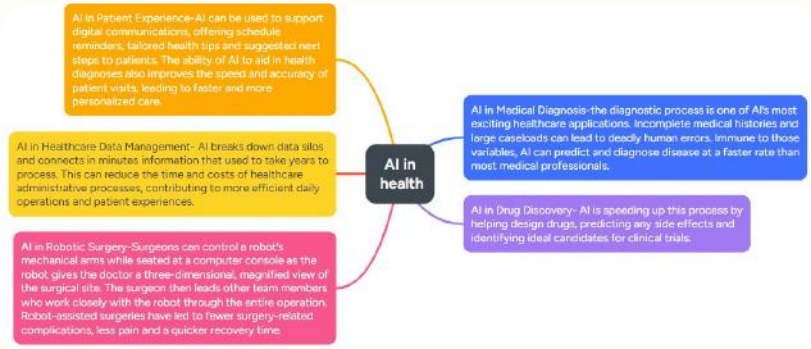
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AI دبـي للذكـــــاء
WEEK الاصطنـــاعي

AI Explorers in Action:
Highlights from Dubai AI Week at JSSPS

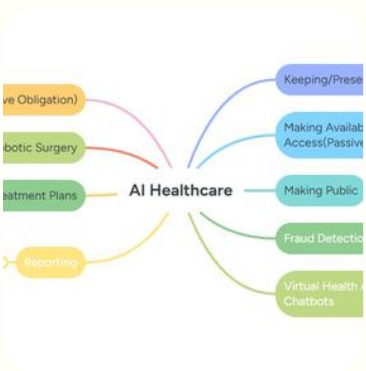


She Leads AI Team





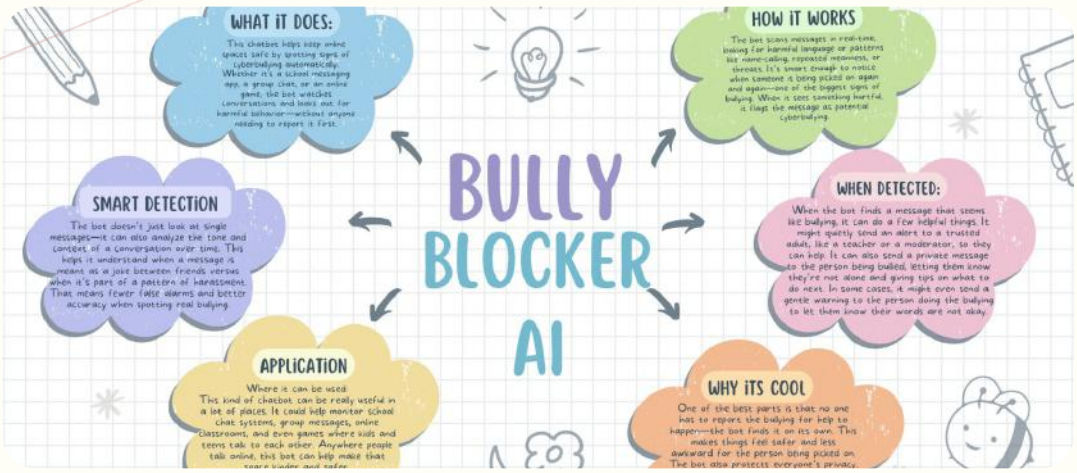


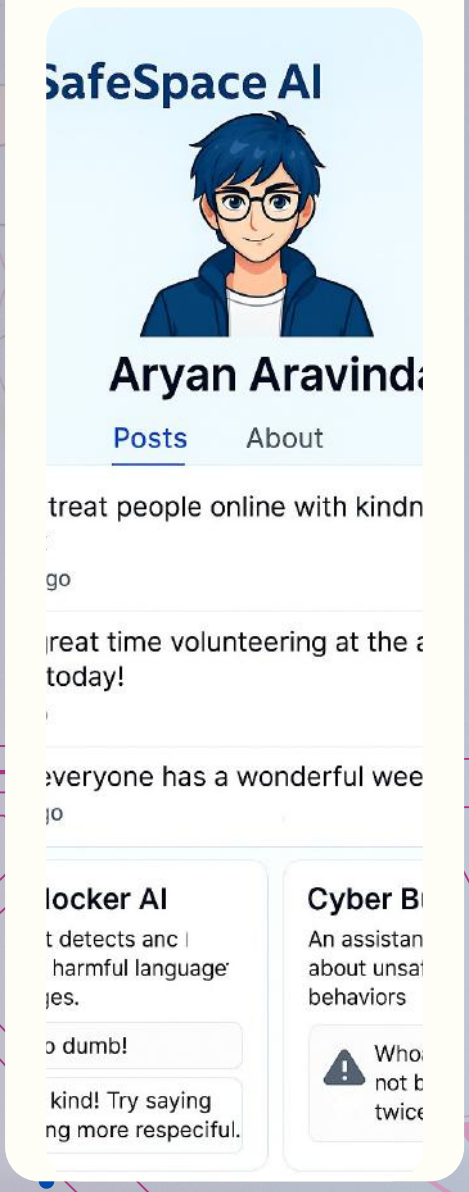




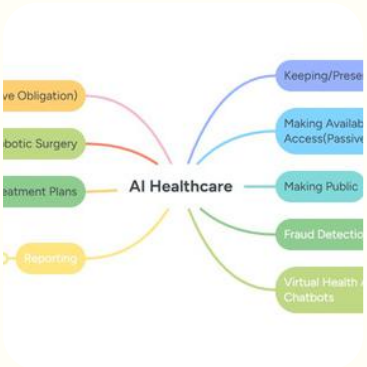
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AI Explorers in Action:
Highlights from Dubai AI Week at JSSPS













AI Readiness Program for Educators and Parents (AIREP)
~ From Students to Parents and Teachers - Reverse Engineering Community Learning





In a groundbreaking initiative by the AI Committee of JSS Private School, the AI Readiness Program for Educators and Parents (AIREP) successfully concluded, marking a significant milestone in fostering AI literacy among educators and parents. This three-week immersive learning program, designed by JSSPS's AI Committee, provided a flexible, self-paced experience for participants on Microsoft Teams.

The program covered crucial topics such as AI fundamentals, ethical concerns, popular AI platforms, and real-world applications. Live Q&A sessions and assessments ensured participants gained hands-on knowledge to integrate AI-driven tools effectively into learning environments.

The program was open to all stakeholders, and parents and teachers participated in huge numbers, making it a truly collaborative learning experience. Participants were evaluated and certified, highlighting their commitment to embracing AI for enriched educational experiences.

The event also showcased the exceptional leadership and support of our AI Committee members, who played a pivotal role in organizing and executing the program seamlessly:

- **Shaun Gonsalves** – President & Content Developer
- **Nabaroon Das** – Founder, Vice President & Session Lead
- **Rylen Anil** - Ambassador & Content Developer
- **Nihal Muhammed** - Ambassador & Certification and Assessment Coordinator
- **Arham Amit** - Ambassador & Q&A and Engagement Lead
- **Dhyey Gandhi** - Ambassador & Tech Support
- **Ms. Mega Manjit** - Head Teacher, AI Committee

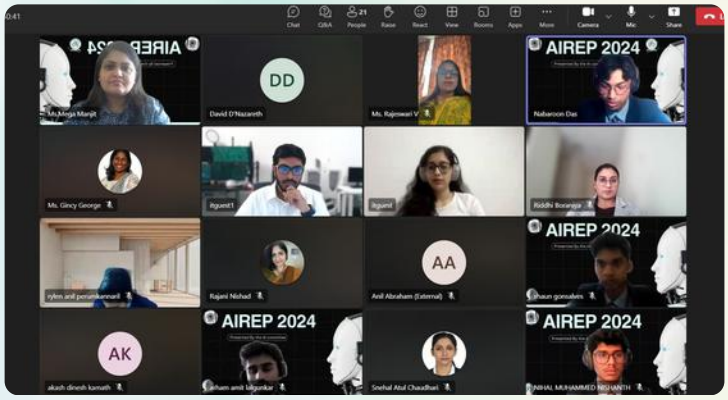






Adding to the event's prestige, JSSPS's esteemed **alumni** graced the occasion, sharing their insights and inspiring the next generation:

- **Suhail, AI Lead Engineer**
- **Sruthi, Data Consultant, UBS UK**
- **Darshan, Cyber Security Expert**



Their presence elevated the discussions, offering firsthand industry perspectives and igniting aspirations among attendees.

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- Arham Amit - Ambassador & Q&A and Engagement Lead
- Dhyey Gandhi - Ambassador & Tech Support
- Mrs. Mega Manjit - Head Teacher, AI Committee



JSS Private School's AI Program empowers educators and parents with future skills

Transformative initiative

In a trailblazing move towards fostering AI literacy, the AI Committee of JSS Private School successfully concluded the AI Readiness Program for Educators and Parents (AIREP) — a transformative initiative designed to equip educators and parents with the skills to navigate an AI-driven future.

This three-week immersive programme, hosted on Microsoft Teams, provided a flexible, self-paced learning experience, covering fundamental AI concepts, ethical considerations, popular AI platforms, and real-world applications. With live Q&A sessions, interactive assessments, and practical insights, participants gained hands-on expertise to seamlessly integrate AI-driven tools into modern education. What set AIREP apart was its inclusive approach, inviting parents and teachers to collaborate and learn alongside students, reinforcing a reverse-engineering community learning model. The overwhelming participation and engagement from all stakeholders underscored the collective commitment to embracing AI for enriched educational experiences.

The programme also featured an inspiring alumni panel, with distinguished graduates of JSSPS sharing their industry insights. Their presence elevated discussions, offering real-world perspectives and igniting aspirations among participants, further bridging the gap between classroom learning and industry applications.

This success would not have been possible without the unwavering support, guidance, and encouragement of leadership team of JSSPS; **Principal Mrs. Chitra Sharma, Vice Principal Mrs.Bindhu Rajiv, Head of Learning Mrs.Akansha Lall, Supervisor Mr. Andaleeb Ishteyaq, Head of CS & AI Dept. Rajeswari.V, Event designer Mrs. Gwen Dickson and CS & AI teacher Ms. Gincy George** throughout the program and its successful completion. Their dedication set a benchmark for excellence, reinforcing the institution's commitment to fostering AI education and innovation.

As we celebrate this achievement, we look forward to more initiatives that empower our educators, parents, and students with the knowledge and tools to navigate an AI-driven future. The success of AIREP is a testament to our collective vision of transforming education through technological empowerment.



Websites for Kids

NASA Kids' Club

Space-themed games and activities introducing kids to space exploration.



Science Kids

Fun games, experiments, and lesson plans on a wide range of science subjects.



Science Bob

Experiments, science fair ideas, and resources that bring science to life. The site is filled with easy-to-understand activities that encourage kids to think like scientists.



Science Buddies

STEM activities, lesson plans, and science projects suitable for different grade levels.



PBS Kids

Interactive games and videos focused on science, nature, and animals.



BrainPOP Jr

Animated videos and quizzes covering various science topics for young learners.



Nat Geo Kids

Apps, videos, games, and engaging content that let kids explore science and nature.



Science News Explores

Age-appropriate science news covering the latest discoveries and research.



Smithsonian Science Education Center

Lesson plans, videos, and activities that promote inquiry-based learning.



Scholastic Science World

Articles, quizzes, and activities tailored to student science learning.



Cool Science Experiments HQ

Fun, hands-on science experiments that are easy to conduct at home or in class.



Science Fun for Everyone

Experiments, camps, and trivia that make science accessible and enjoyable.



Easy Science for Kids

Articles, worksheets, and activities making science accessible and fun.



Exploratorium

Hands-on activities, videos, and experiments across various science topics.



SciShow Kids:

YouTube channel offering science videos on diverse topics for young learners.





The Team Powering Innovation:

Meet the CS & AI Team of JSSPS

Ms. Snehal, Ms. Gincy, Ms Rajeswari,
Ms. Mega, Ms. Nitya & Mr. David

(From Left to Right)

Illustration generated using ChatGPT in Studio Ghibli art style

