

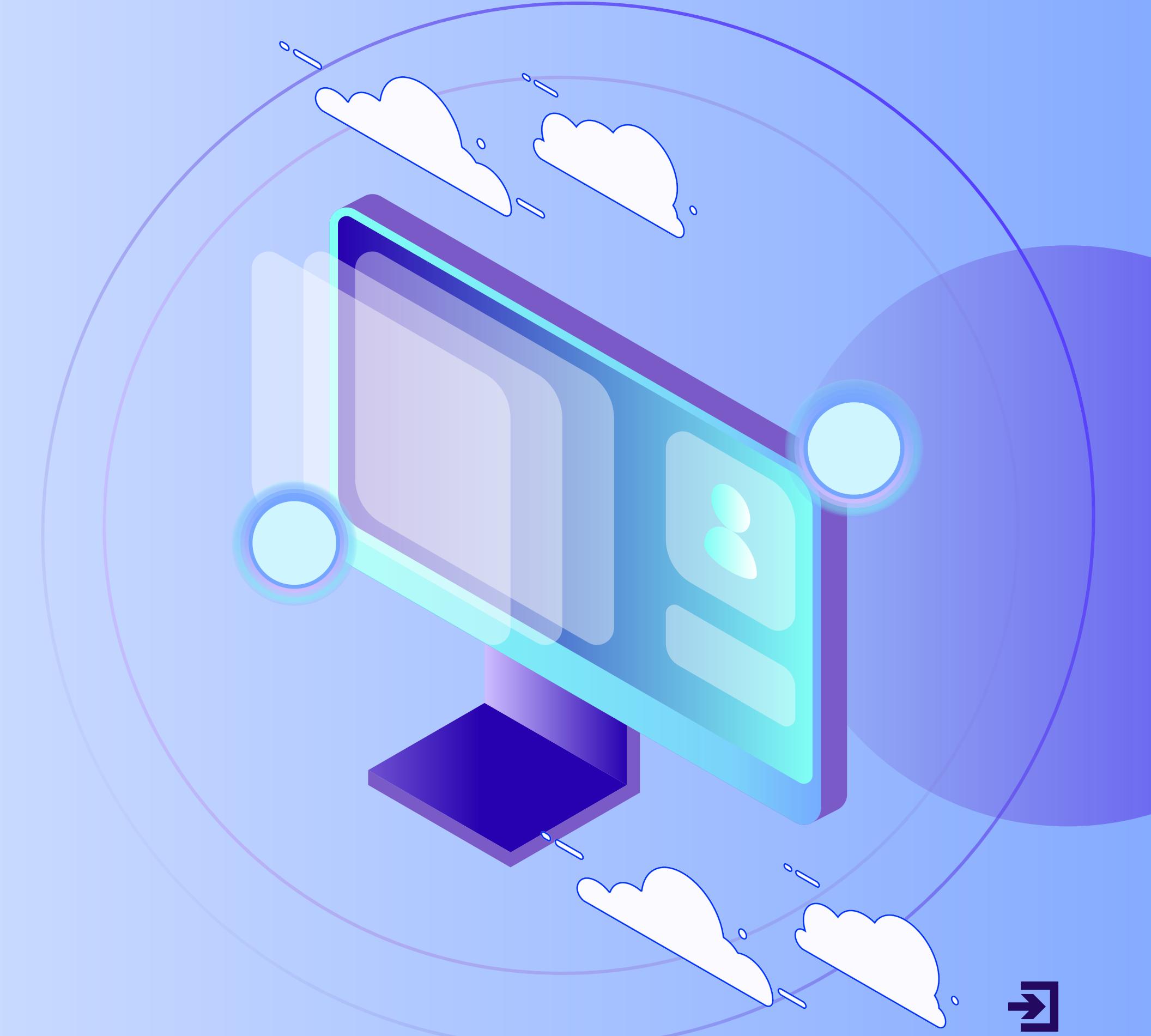


Aavishkar Codex

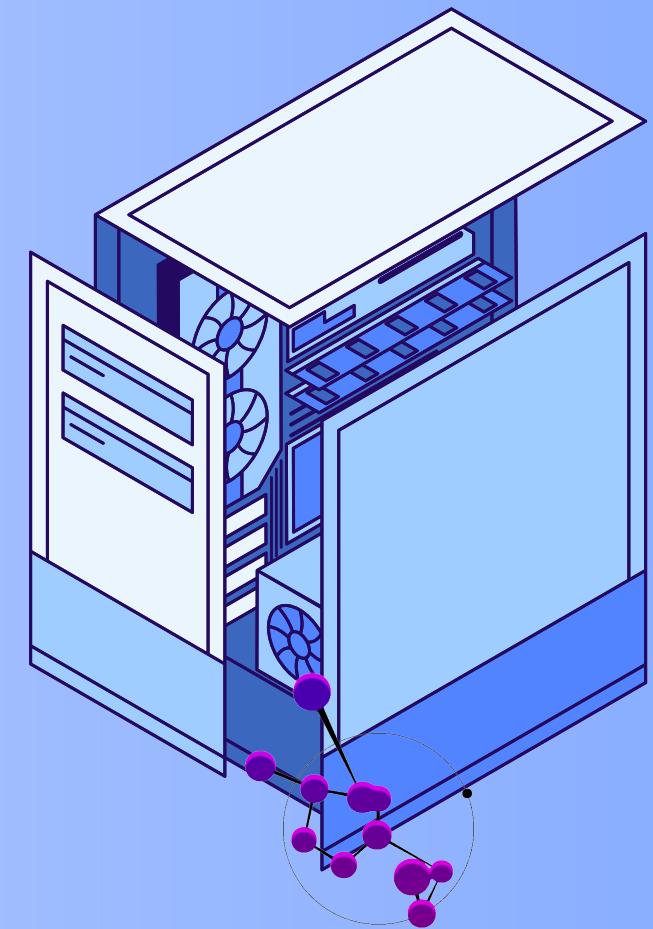
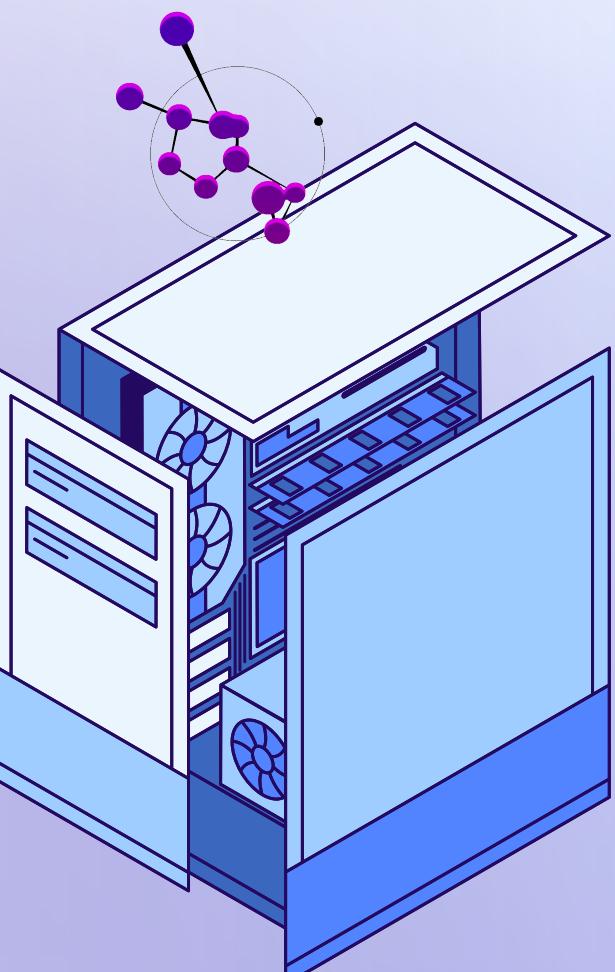
CODING IN SCHOOL'S



<https://aavishkarcodex.com>



BENEFITS OF TEACHING CODING IN SCHOOLS



In today's digital age, coding has become an essential skill that goes beyond traditional academics. Introducing coding in schools equips students with problem-solving abilities, creativity, and future-ready skills that prepare them for careers in a technology-driven world.

Here are the key benefits of teaching coding to students and how schools can position themselves as forward-thinking institutions by integrating coding into their curriculum.



BENEFITS FOR STUDENTS



Improves
Problem solving



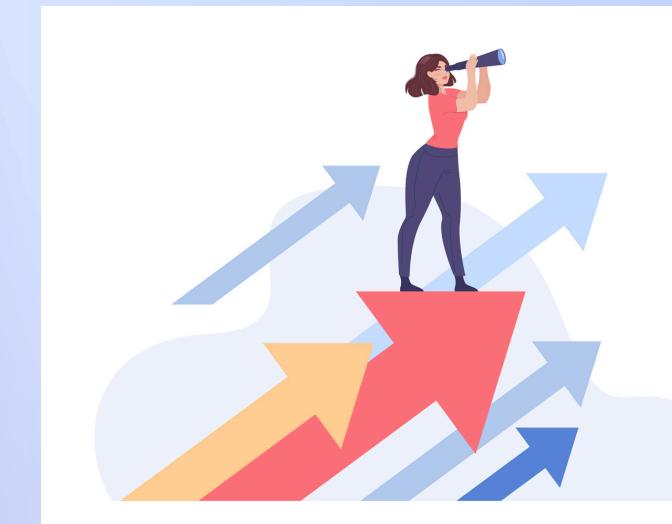
Enhances Creativity
and Innovation



Develops Computational
Thinking



Builds Resilience
and Perseverance



Offers Future Career Opportunities

BENEFITS FOR STUDENTS



1.1 Improves Problem-Solving Skills

Coding encourages students to think logically and break down complex problems into smaller, manageable tasks. It teaches students to approach challenges methodically, enhancing their critical thinking and analytical skills.

1.2 Enhances Creativity and Innovation

With coding, students can build their own games, websites, and apps, turning ideas into reality. This fosters creativity and innovation as they learn to design and create digital solutions for real-world problems.

BENEFITS FOR STUDENTS



1.3 Develops Computational Thinking

- Coding helps students develop computational thinking, which involves:
 1. Decomposition: Breaking down problems into smaller parts.
 2. Pattern Recognition: Identifying similarities and trends.
 3. Abstraction: Simplifying complex problems.
 4. Algorithm Design: Creating step-by-step solutions.
- These skills are useful not only in computer science but also in mathematics, science, and other subjects.

1.4 Builds Resilience and Perseverance

- Coding involves testing, debugging, and iterating on solutions. Students learn to embrace failure as part of the learning process, building resilience and perseverance to overcome challenges.

BENEFITS FOR STUDENTS



1.5 Offers Future Career Opportunities

The demand for coding skills is growing across various industries. By learning to code, students gain valuable skills that open doors to careers in fields such as:

- Software Development
- Artificial Intelligence (AI)
- Data Science
- Cybersecurity
- Game Development
- Mobile App Development

BENEFITS FOR SCHOOLS



POSITIONS THE SCHOOL AS A FUTURE-READY INSTITUTION



PREPARES STUDENTS FOR NEW-AGE CAREERS



Enhances Creativity and Innovation



INTEGRATES WITH STEM EDUCATION





BENEFITS FOR SCHOOLS

2.1 Positions the School as a Future-Ready Institution

Schools that teach coding demonstrate a commitment to preparing students for the future. This positions the school as a forward-thinking institution that values modern education and digital literacy.

2.2 Increases Enrollment and Reputation

Offering coding programs can attract more students and parents looking for schools that prioritize digital skills. This enhances the school's reputation and competitiveness in the education sector.





BENEFITS FOR SCHOOLS

2.3 Integrates with STEM Education

Coding is a core component of STEM (Science, Technology, Engineering, and Mathematics) education. By integrating coding into the curriculum, schools provide a holistic learning experience that equips students with a wide range of technical and analytical skills.

2.4 Prepares Students for New-Age Careers

Many future jobs will require knowledge of coding and digital technologies. Schools that teach coding ensure their students are ready to take on new-age careers that may not even exist yet.

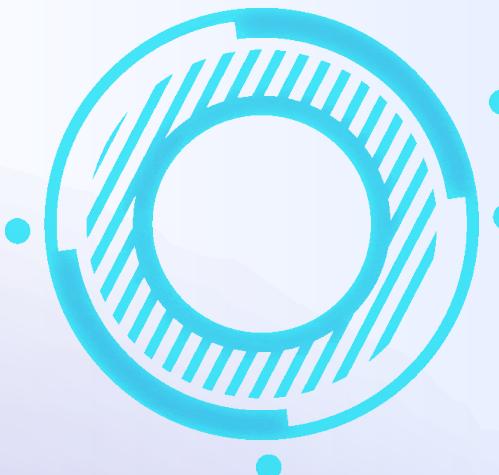


FUTURE-READY SKILLS FOR STUDENTS



Skill	How Coding Helps
Problem-Solving	Breaking down problems into smaller, solvable steps
Critical Thinking	Analyzing situations and finding efficient solutions
Creativity	Designing games, websites, apps, and innovative projects
Collaboration	Working in teams on coding projects
Resilience	Learning from mistakes and debugging errors
Digital Literacy	Understanding technology beyond just using it





REAL-LIFE EXAMPLES OF Coding in Schools

4.1 Finland

Finland has integrated coding into its national curriculum for primary school students to improve logical thinking and problem-solving skills.

4.2 United States

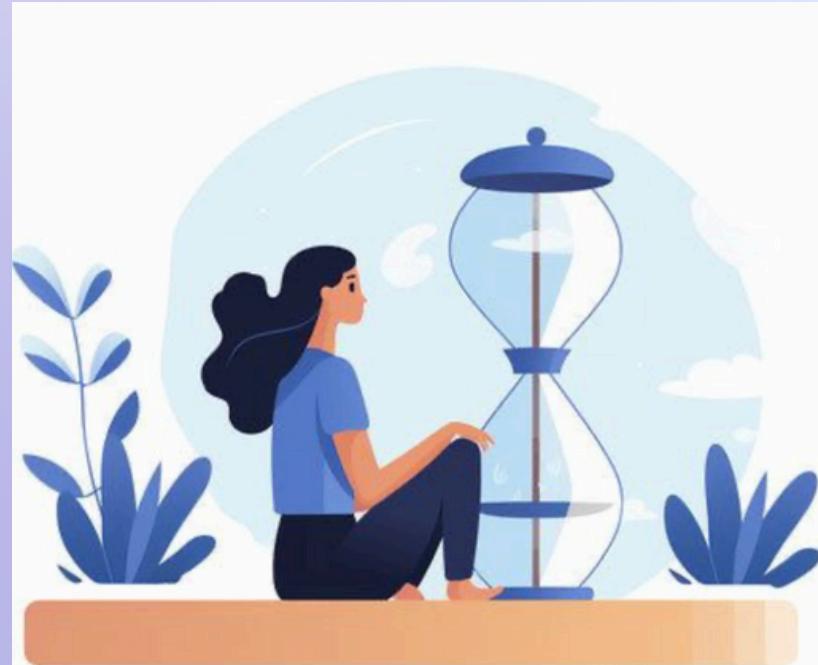
Many schools in the U.S. have introduced computer science courses to prepare students for the growing tech industry.

4.3 India

India's National Education Policy (NEP) 2020 emphasizes coding for students starting from Grade 6 to build digital skills and computational thinking. But not applied properly.



SOFT SKILLS DEVELOPED THROUGH CODING



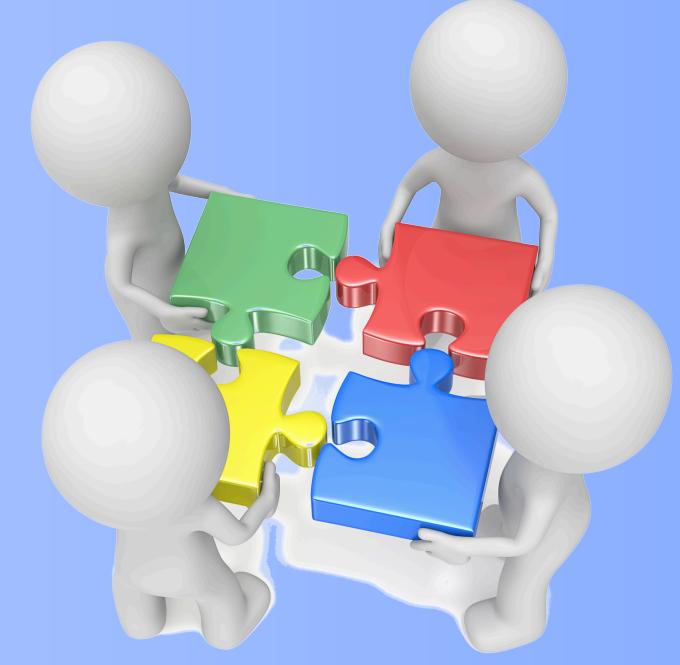
PATIENCE



ATTENTION TO DETAIL



TIME MANAGEMENT



TEAMWORK



SOFT SKILLS DEVELOPED THROUGH CODING



Soft Skill	Description
Patience	Debugging requires patience and persistence.
Attention to Detail	Coding demands precision and accuracy.
Time management	Completing coding projects within deadlines.
Teamwork	Many coding projects involve collaboration and teamwork.

Course Name	Details
Scratch	A beginner-friendly programming language using visual blocks to create interactive stories, games, and animations.
MIT App Inventor	An intuitive, visual programming environment that allows everyone to build fully functional apps for smartphones and tablets.
Python	A powerful and easy-to-learn programming language great for kids to start coding with simple syntax and a wide range of applications.
SQL/NoSQL	Introduction to databases; SQL for relational databases and NoSQL for non-relational databases, teaching kids how to manage and query data.
HTML/CSS	Fundamental technologies for creating web pages; HTML structures the content, and CSS styles it to make visually appealing web pages.
Core Java	A versatile and widely-used programming language, perfect for learning object-oriented programming concepts.
JavaScript	A programming language that allows kids to create dynamic and interactive web pages, essential for front-end web development.
AI/ML	Introduction to Artificial Intelligence and Machine Learning, teaching kids the basics of how machines can learn and make decisions.

THANK YOU!



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