

## OVERVIEW

In today's rapidly evolving world, innovation and technological expertise are more crucial than ever. This immersive summer programme is designed to equip students with the critical skills needed to drive change, solve complex problems, and shape the future of technology. Through interactive workshops, hands-on projects, and real-world case studies, participants will gain a deep understanding of emerging technologies, entrepreneurship, and digital innovation.

Over the course of the programme, students will take on the role of innovators and problem-solvers, tackling real-world challenges, prototyping new ideas, and exploring the ethical implications of cutting-edge advancements. From coding and AI-driven solutions to startup pitching and design thinking, students will develop the creativity and strategic mindset required for success in the tech-driven world.

With a strong emphasis on collaboration, critical thinking, and adaptability, this programme fosters essential skills that extend beyond the classroom. Whether aspiring to careers in technology, entrepreneurship, engineering, or digital transformation, students will leave with the tools to innovate, collaborate, and think boldly. Designed for motivated young individuals eager to shape the future, this summer school is the perfect opportunity to challenge yourself, connect with like-minded peers, and gain invaluable experience in technology and innovation.

## TOPICS COVERED

### Topic 1

#### **The Future of AI: Opportunities and Challenges**

Artificial intelligence is transforming industries, from healthcare to finance. This session explores how AI is developed, its real-world applications, and ethical concerns, including bias and job displacement. Students will also experiment with AI tools to understand their potential and limitations.

### Topic 2

#### **Design Thinking & Prototyping for Innovation**

Innovation starts with understanding user needs. This hands-on workshop introduces design thinking—a problem-solving approach used by leading tech companies. Students will brainstorm, prototype, and test solutions to real-world problems using rapid prototyping techniques and creative problem-solving strategies.

### Topic 3

#### **Entrepreneurship in the Digital Age**

From Silicon Valley startups to global disruptors, technology-driven entrepreneurship is reshaping the business world. This session explores the fundamentals of launching a tech startup, including market validation, funding strategies, and pitching ideas. Students will develop their own startup concepts and refine their business models.

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## Topic 4

### Cybersecurity & Ethical Hacking

As technology advances, so do cyber threats. This topic covers key cybersecurity principles, ethical hacking techniques, and how businesses protect their digital assets. Students will explore real-world hacking scenarios, learning to think like both attackers and defenders in the cybersecurity landscape.

## Topic 5

### The Rise of Smart Cities and IoT

The Internet of Things (IoT) is revolutionising urban life, from smart traffic systems to energy-efficient buildings. This session examines how connected devices and AI-driven infrastructure are shaping the future of cities. Students will brainstorm innovative IoT applications to solve urban challenges.

## PROFESSIONAL DEVELOPMENT

This programme is designed to help students build the essential personal and interpersonal skills needed to thrive in leadership roles and everyday life. Through interactive workshops and practical exercises, participants will develop resilience, confidence, and the ability to collaborate effectively with others.

Public speaking sessions will provide techniques to communicate ideas persuasively, while activities on managing pressure will equip students with strategies to stay focused and composed in high-stakes situations. By engaging in real-world challenges and reflective exercises, students will leave with a stronger sense of self, the ability to navigate setbacks, and the confidence to take on leadership roles with clarity and purpose.

## PERSONAL PROJECT

Your personal project will be a portfolio document created using the texts we write during our sessions. You might also like to include writing you have already started (e.g. the opening to a novel) which you have then worked on during our course. There will be enough time during our sessions to prepare the personal project portfolio, but you are free to work on it in your own time too if you choose.

## ADDITIONAL NOTES

It is very important that you bring a laptop which allows you access to Google Drive and Documents. You will be using these extensively throughout the course. You can draft texts using pen and paper if you like, but you will also need to write them up digitally in the session using a laptop so that your tutor can access it. As there are limited charging facilities in the classrooms, it is also important that the laptop has sufficient battery to last for the duration of the session.

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