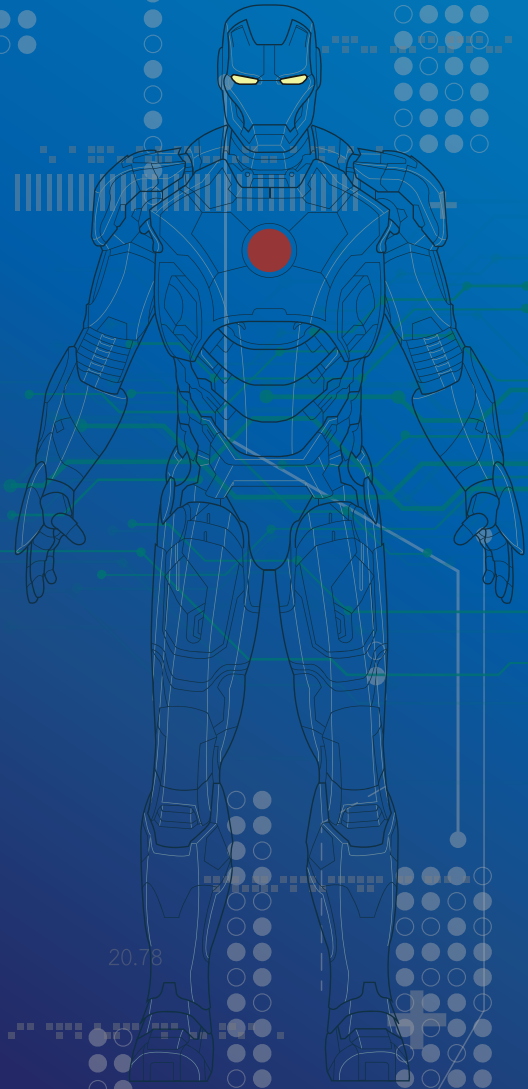




**EARLY TECH EXPOSURE
FUELS FUTURE SUCCESS**



PREMIER ACCELERATOR PROGRAM FOR TECH INNOVATION

Learn 10+ Emerging Technologies by
Building Projects and Solving Challenges

**An experiential 12-month program to discover your
incredible future**

Class 6 to 12 | Age 11 to 17



INTRODUCTION

In the rapidly evolving landscape of education, the significance of acquiring extracurricular skills has never been more pronounced. Amidst a plethora of options, our Emerging Technology program shines a spotlight on a transformative array of skills, Programming, Robotics, AI, Data Science, and more. Python offers versatile programming paths from software development to data science. Robotics and 3D printing innovate, making imaginations tangible.

AI and Data Science aren't just future prospects – they're here. Global giants use them for breakthroughs. AI subtly enhances daily experiences, from Alexa to Netflix to eCommerce and Google Maps.

Acknowledging the escalating prominence of emerging technologies, we've crafted a foundational course to provide students with an early foothold in understanding their intricacies. Our program serves as a launchpad, guiding tomorrow's leaders through the intricate landscape of technology, empowering them to confidently navigate its current applications and boundless future opportunities.

EXPERT SPEAK



AI is in a 'golden age' and solving problems that were once in the realm of Sci-Fi.

JEFF BEZOS, CEO, Amazon



The robots are coming, whether we like it or not, and will change our economy in dramatic ways.

BILL GATES, Co-founder, Microsoft



The jobs of the future are going to involve humans collaborating with other humans to design work for machines.

SUSAN WOJCICKI, CEO of YouTube



In the world of technology, change is constant. The most important quality you can develop is the ability to adapt to change.

SATYA NADELLA, CEO of Microsoft



In essence, this indicates that the present generation of students will enter a job market characterized by entirely different demands and outlooks. To equip these young learners for a remarkable career and enable them to make a meaningful impact, 10xTC presents an unique offering:

The Premier Accelerator Program for Tech Innovation

This comprehensive year long program spans four stages, facilitating the development of skills that will matter most in the students chosen careers and not just the ability to take standardized tests.

PROGRAM HIGHLIGHTS

This Premier Accelerator Program is designed to be flexible enough to work along with student's current schedule (**up to 4 hours weekly commitment only**). All sessions are in-person and run on weekends with small cohort of 10 to 12 students in 10xTC's STEM learning center. Complementing in-person sessions, 10xTC's Learning Platform ensures a seamless educational experience.



LEARNING HIGHLIGHTS



**EXPERIENTIAL HANDS-ON
PROJECT-BASED LEARNING**



**IN-PERSON INSTRUCTOR-
LED SESSIONS**



**CURRICULUM DESIGNED TO
PREPARE FOR PROFESSIONAL
WORLD**



**LEARNING ENVIRONMENT
THAT STUDENTS LOVE**



**CRITICAL THINKING,
PROBLEM SOLVING &
TEAMWORK**



**SPECIAL EVENTS TO BUILD
REAL-LIFE SKILLS**

GET THE 10X TECHCLUB ADVANTAGE

10xTechClub empowers students with a unique tech accelerator program for career success. We believe in holistic learning, combining diverse ideas, concepts, and practical skills. We provide mentor-guided in-person learning for practical, impactful outcomes using advanced tools and cutting-edge curriculum.

By seamlessly integrating industry, academia, and domain experts, our program fosters an environment where young minds are exposed to new horizons and are encouraged to unearth their latent talents.



**Learn Coding, AI, Robotics, IoT,
3D Printing, Data Science and more**



**Online Learning Platform -
All your Learners' needs, in One Place**



**Build an e-Portfolio of Projects
Showcase Skills Gained**



**Tech Hackathons
Hack Real Solutions in a Short Time**



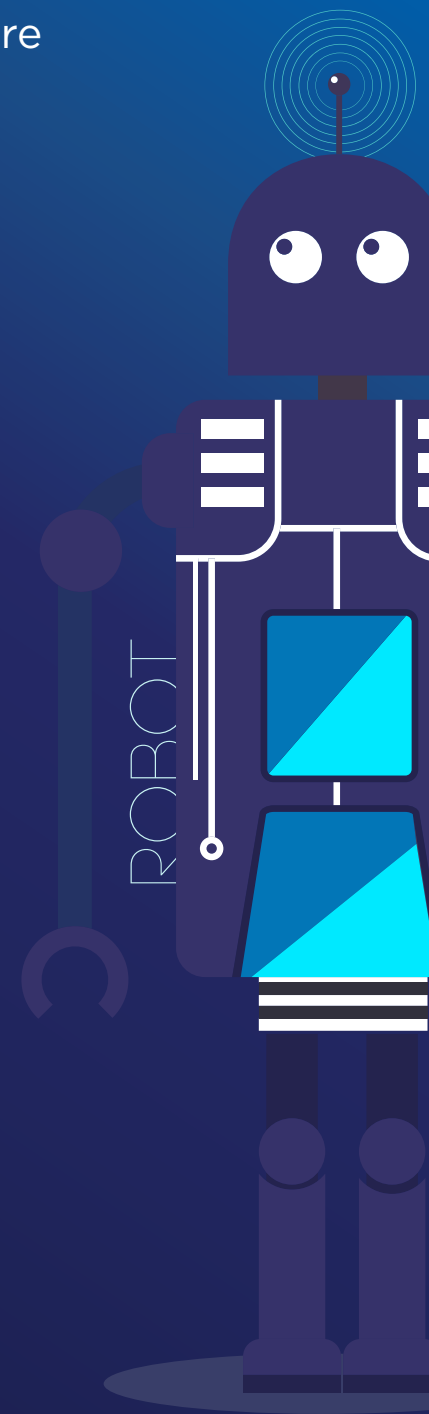
**Big Tech Office Visit
Gain exposure to real-world**



**Pitch a Business Plan at 10xSharkClub
Get funding for Prototype Development**



**Nurture the muscles of Curiosity,
Imagination & Creativity**



21ST CENTURY SKILLS

Key Focus: Student's ability to adapt to change. Prioritize not just "results" but also cherish the transformative "learning experiences" fostered by our unique "10xTC learning process."

LEARNING SKILLS



Critical thinking

*Learn while Doing
Project-Based Learning*



Creativity

*Innovative Challenges & Hackathons
Mentorship*



Collaboration



Communication

LITERACY SKILLS



Information

*Digital & Emerging Tech
Tech Pedagogy*



Media

*Podcast & Demos
Industry Expert Interactions*



Technology

LIFE SKILLS



Flexibility

*Entrepreneurship
Experiential Learning Process*



Leadership



Initiative



Productivity

*Success Frameworks
10xSharkClub Business Plan Pitch*

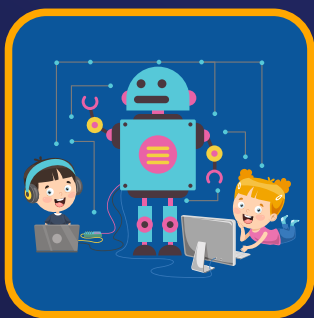


Social Skills



CURRICULUM

The curriculum is designed to foster tech skills, from basics to advanced, through hands-on learning. It aligns with industry needs, encourages problem-solving, and promotes creativity while addressing real-world challenges. It embraces Learn while Doing theme for Enjoyable Applied Learning.



Design and Build Tech Projects



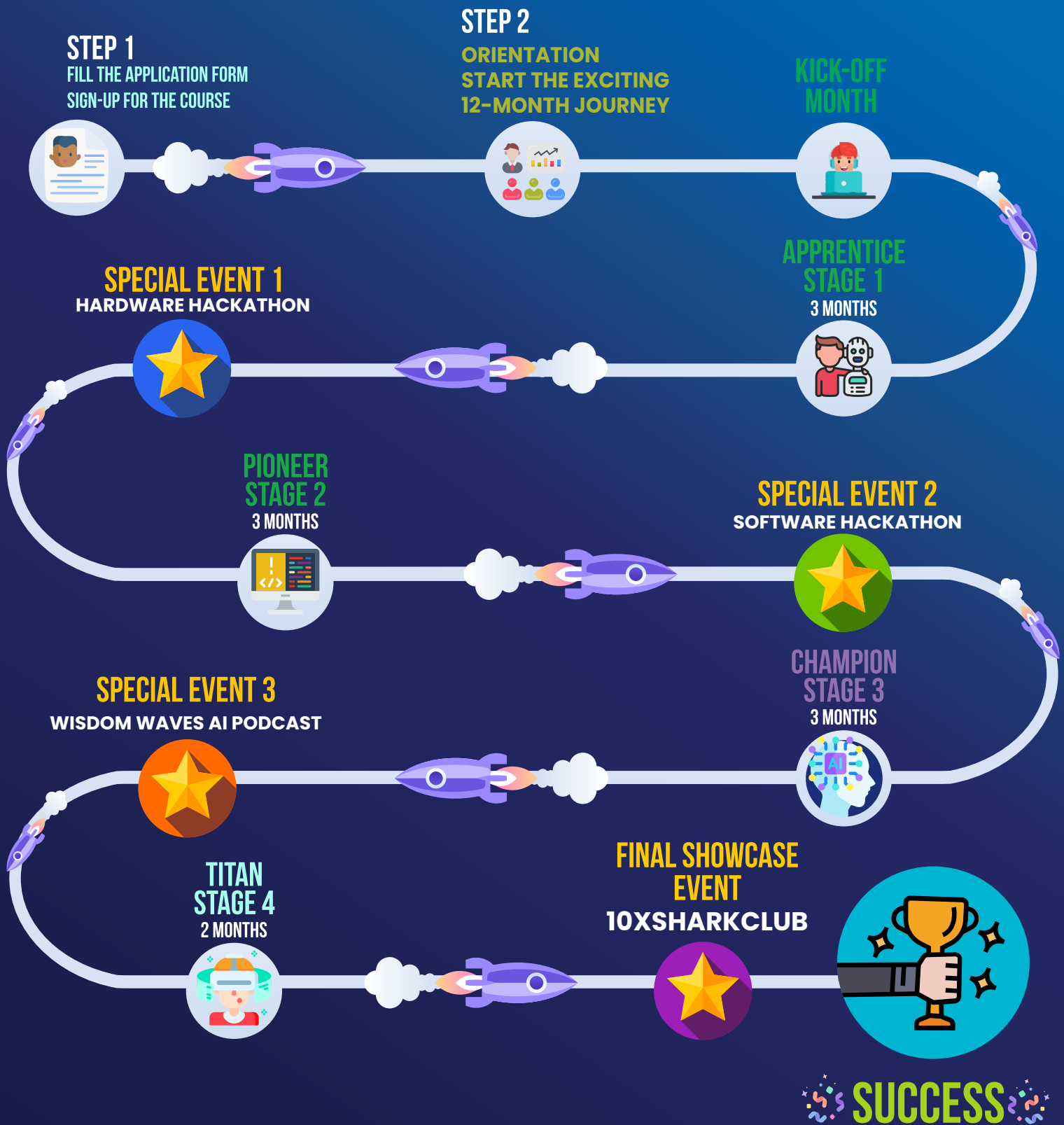
Participate in Challenges & Hackathons



Apply Design Thinking Framework

As a result, students will emerge from the program with well-rounded skills: **Programming, 3D Printing, Robotics, AI, Success Frameworks and more.** With **20+ projects, 4 special events, and 12 months of learning, imagine creating next-gen tech.**

12 MONTH PROGRAM JOURNEY



KICK-OFF

1 Month

SETTING THE FOUNDATION



CONCEPTS

- ▶ Structure & Planning
- ▶ Tech Essentials
- ▶ Programming Basics
- ▶ Presentation Skills
- ▶ Success Frameworks

- PROJECTS:**
- ▶ Create Algorithms and Presentations
 - ▶ Design Thinking Framework based activities

STAGE 1 **Apprentice** 3 Months

MODULE 1 **4 Weeks**

3D DESIGN AND PRINTING



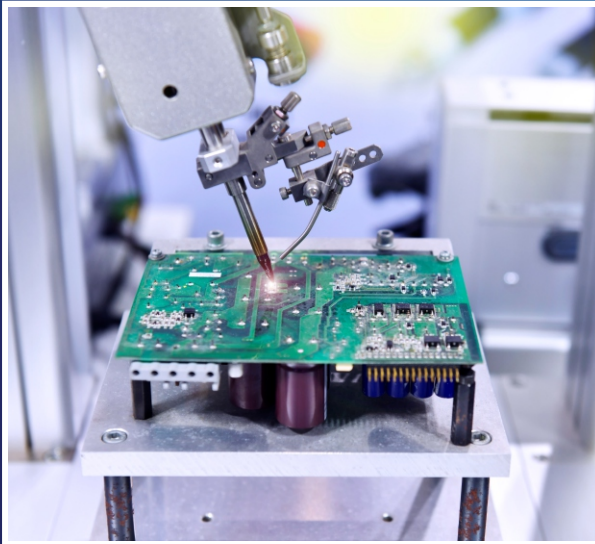
CONCEPTS

- ▶ 3D modelling Basics
- ▶ Understanding File Formats
- ▶ Printing & Calibrating
- ▶ Applications & Opportunities

- PROJECTS:**
- ▶ Create 3D Models using Modelling Software
 - ▶ Design and Print your own models

STAGE 1**MODULE 2 4 Weeks**

EMBEDDED SYSTEMS AND INTERNET OF THINGS (IOT)

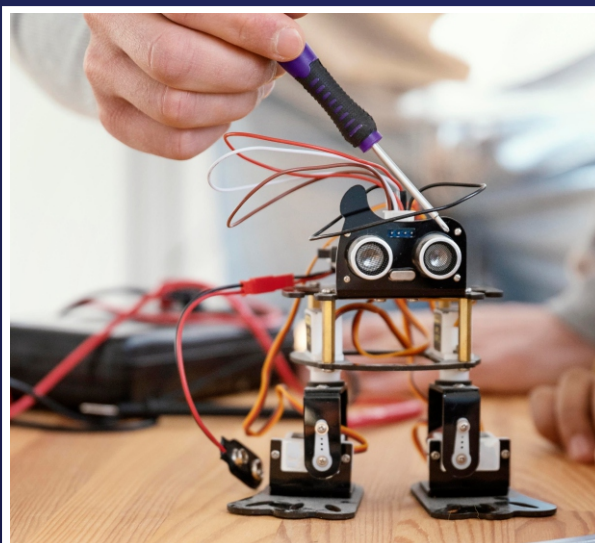
**CONCEPTS**

- ▶ Programming Microcontrollers
- ▶ Learning Sensors & Actuators
- ▶ Wireless Communication
- ▶ What is IoT & Cloud
- ▶ Future of IoT

- PROJECTS:**
- ▶ Arduino Based Tony Stark's Arc Reactor Monitor
 - ▶ Build and Program a Bluetooth controlled Car

STAGE 1**MODULE 3 4 Weeks**

ROBOTICS & AUTOMATION

**CONCEPTS**

- ▶ Robotics Fundamentals
- ▶ Robot HW & SW
- ▶ Controlling Robots
- ▶ Applications & Opportunities

- PROJECTS:**
- ▶ Build and Program a Robotic Arm
 - ▶ Design, Assemble and Program a Robot Car

STAGE 2

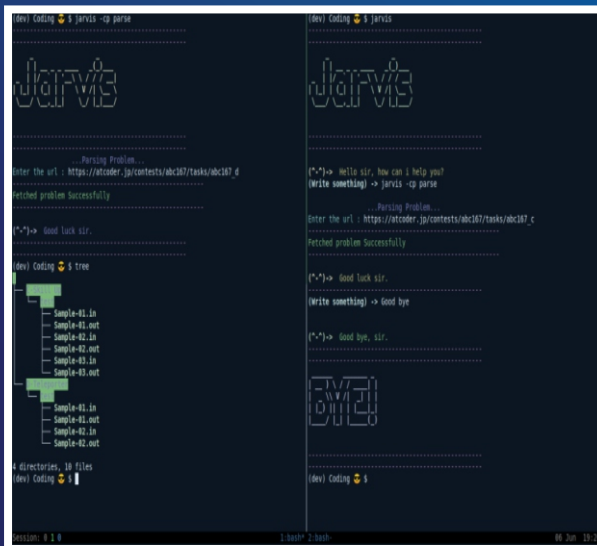
Pioneer

3 Months

MODULE 1

8 Weeks

PYTHON PROGRAMMING



CONCEPTS

- ▶ Programming Fundamentals
- ▶ Python
- ▶ Software Development
- ▶ Tools & Applications

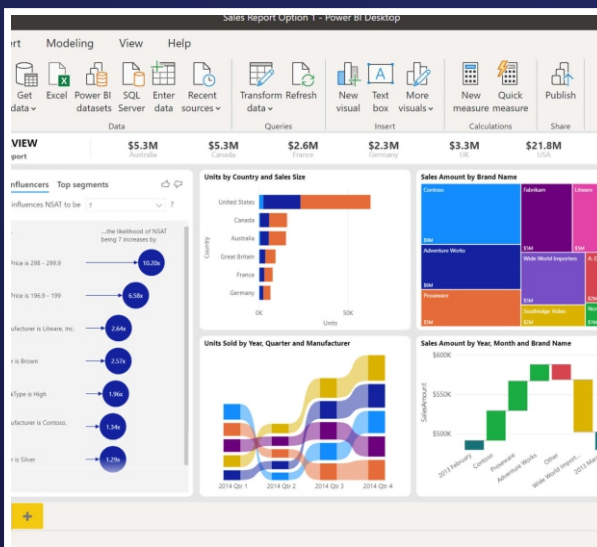
- PROJECTS:**
- ▶ Develop Jarvis - Tony Stark's Personal Assistant
 - ▶ Use Python to build a 3D Printing Cost Calculator and more.

STAGE 2

MODULE 2

4 Weeks

DATA SCIENCE (DS)



CONCEPTS

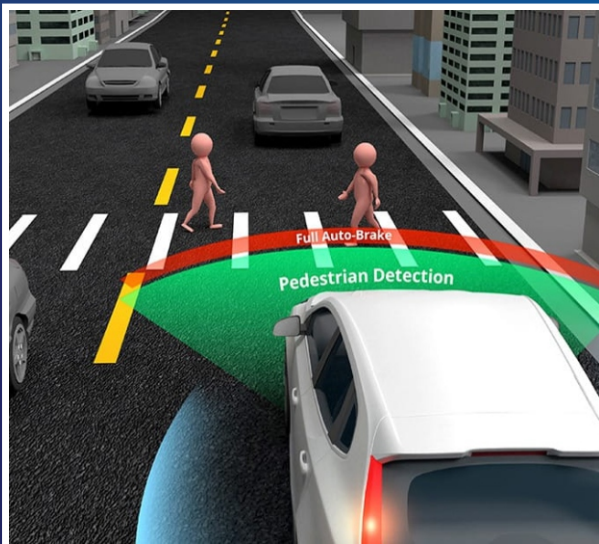
- ▶ What is Data
- ▶ Introduction to DS
- ▶ Exploratory Data Analysis
- ▶ DS in Everyday Life

- PROJECTS:**
- ▶ Explore Visual Tools like PowerBI
 - ▶ Visualize Real-world scenarios like Personal Finance, Sales Analysis

STAGE 3 **Champion** 3 Months

MODULE 1 **2 Weeks**

ARTIFICIAL INTELLIGENCE (AI)



CONCEPTS

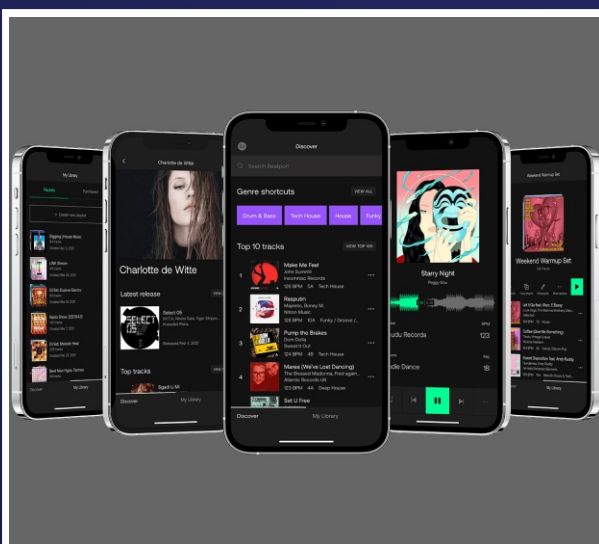
- ▶ Different types of AI
- ▶ Applications of AI
- ▶ Comparing AI & non-AI

- PROJECTS:**
- ▶ Simulate a Self-Driving Car like Tesla
 - ▶ Detect handwritten text using AI

STAGE 3

MODULE 2 **3 Weeks**

MACHINE LEARNING (ML)



CONCEPTS

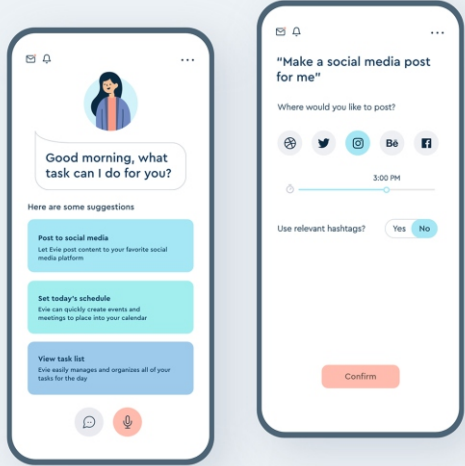
- ▶ Different types of ML
- ▶ How ML works
- ▶ Applications of ML

- PROJECTS:**
- ▶ Building a Music Recommendation System
 - ▶ Anime character classification

STAGE 3

MODULE 3 2 Weeks

NATURAL LANGUAGE PROCESSING (NLP)



CONCEPTS

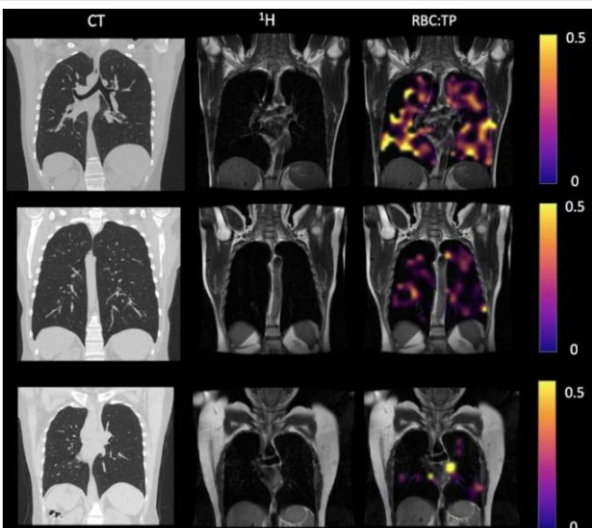
- ▶ Different types of NLP
- ▶ How NLP works
- ▶ Applications of NLP

- PROJECTS:**
- ▶ Design a virtual AI Voice Assistant
 - ▶ Sentiment Analysis of Iron Man dialogues

STAGE 3

MODULE 4 2 Weeks

COMPUTER VISION (CV)



CONCEPTS

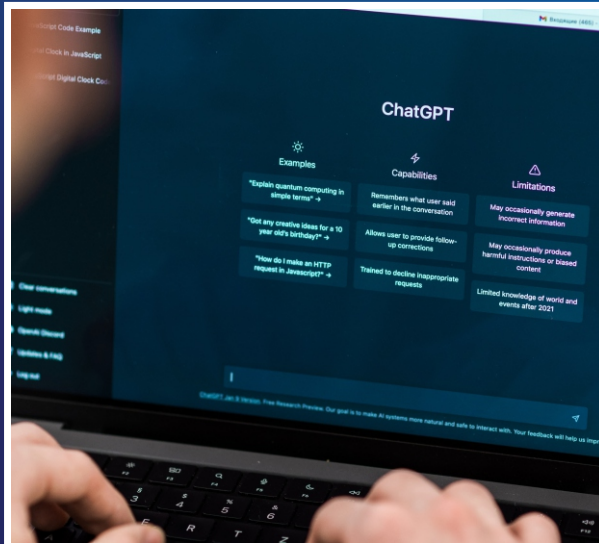
- ▶ How CV works
- ▶ Types of CV algorithms
- ▶ Applications of CV

- PROJECTS:**
- ▶ Face and Gender Detection, Cricket Umpire Pose Detection
 - ▶ Automatic Number Plate Recognition (ANPR)

STAGE 3

MODULE 5 3 Weeks

GENERATIVE AI



CONCEPTS

- ▶ Different types of Gen AI
- ▶ Introduction to ChatGPT, Bard, Midjourney, etc
- ▶ Applications of Gen AI

- PROJECTS:**
- ▶ Create a custom Chatbot
 - ▶ Design an Anime Face Generator

Students learn any 1 Technology from the offered Modules

STAGE 4 **Titan** **2 Months**

MODULE 1 **4 Weeks**

DRONES (UAVS - UNMANNED AERIAL VEHICLES)



CONCEPTS

- ▶ Basics of UAVs
- ▶ Components & Flight Controls
- ▶ Programming & Semi-Autonomous Flight
- ▶ Drone Applications and Future

- PROJECT:**
- ▶ Build a Mini Quadcopter Drone
 - ▶ Use a Simulator to practice Flying a Drone

STAGE 4

MODULE 2 **4 Weeks**

AUGMENTED REALITY VIRTUAL REALITY (AR/VR)



CONCEPTS

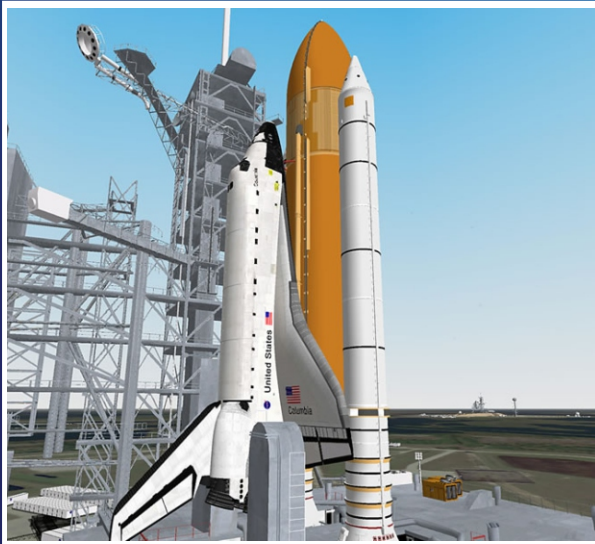
- ▶ Basics of AR/ VR/ MR/ XR
- ▶ Hardware & Software
- ▶ Making AR/VR Experiences
- ▶ Applications & Opportunities

- PROJECT:**
- ▶ Create a simple AR/VR experience
 - ▶ Create your own Metaverse

STAGE 4

MODULE 3 4 Weeks

SPACE TECH



CONCEPTS

- ▶ Rockets and Spacecrafts
- ▶ Satellites and Rover
- ▶ Managing Space Information
- ▶ Astronaut Training and Suits

- PROJECT:**
- ▶ Satellite Location Display and Connectivity using GPS module and Arduino
 - ▶ Mission Mars: Data-Driven Decision Making

STAGE 4

MODULE 4 4 Weeks

ELECTRIC MOBILITY AND EVs



CONCEPTS

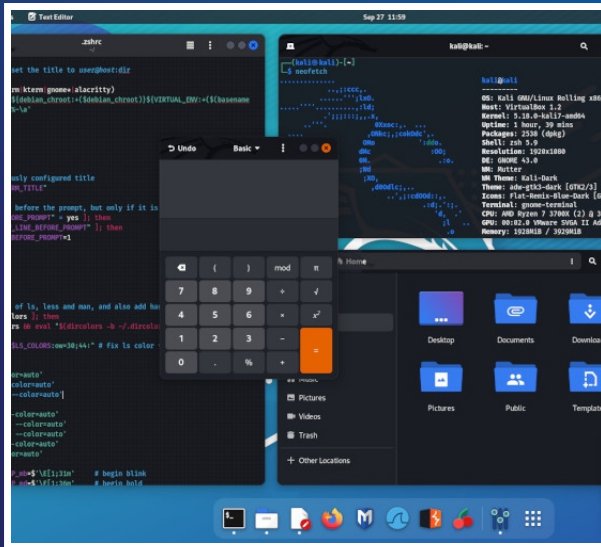
- ▶ How EVs work: Components
- ▶ Powering EVs: Batteries & Charging
- ▶ Future of Electric Mobility
- ▶ Data Science and Evs

- PROJECT:**
- ▶ Make your own Solar Powered Electric Car
 - ▶ Data Analysis and Visualization to understand Charging Behaviour

STAGE 4

MODULE 5 4 Weeks

CYBER SECURITY



CONCEPTS

- ▶ Cyber Security Basics
- ▶ Tools & Software
- ▶ Threats & Vulnerabilities
- ▶ Internet Safety & Privacy

- PROJECTS:**
- ▶ Digital Forensics with Kali Linux
 - ▶ Vulnerability analysis of computer systems

STAGE 4

MODULE 6 4 Weeks

BLOCKCHAIN & CRYPTOCURRENCY



CONCEPTS

- ▶ Understanding Blockchain Technology
- ▶ Physical and Digital Money
- ▶ Cryptocurrency Basics
- ▶ Bitcoin: The Pioneer Cryptocurrency

- PROJECTS:**
- ▶ Develop a verified blockchain with actual attributes
 - ▶ Blockchain Simulation Game

STAGE 4**FINAL MONTH 4 Weeks**

FINAL SHOWCASE EVENT



CONCEPTS

- ▶ Entrepreneurship Skills
- ▶ Funding and Financials
- ▶ Business Strategy and Planning
- ▶ Technology Integration
- ▶ Pitching Idea

- PROJECTS:**
- ▶ Develop a Business Plan to solve a real-world challenge
 - ▶ Experience the excitement and challenges of real-world innovation and entrepreneurship

FACULTY & PROGRAM COACHES



RAJESH SHAH

Founder & Mentor, 10xTechClub

Ex - Avaya, TCS, Cisco Systems

MTech (IIT Chennai), **MBA** (IT & Systems)



PRATIMA THAKUR

Curriculum Development Lead, 10xTechClub

Ex - Curioed, Swiflearn

STEM (Master Trainer), **MSc** (Marine Science)



POOJA GURNANI

Educator, Curriculum Developer, 10xTechClub

Visiting faculty - SPPU, Symbiosis

MSc (Computer Science)



ADITYA EKUNKAR

Tech Trainer & Curriculum Developer, 10xTechClub

BE (Computer Engineering)

OUR MENTORS



DR. PRATAP SANAP

Head - Research & Innovation @Neilsoft
Member of Executive Committee, Smart India Hackathon
Expertise: AI, DS, AR/VR, Robotics



PRASHANT KULKARNI

Principal Director- Product Engineering, LTIMindtree
Expertise: Product Development, Software Engineering, Blogger & Writer

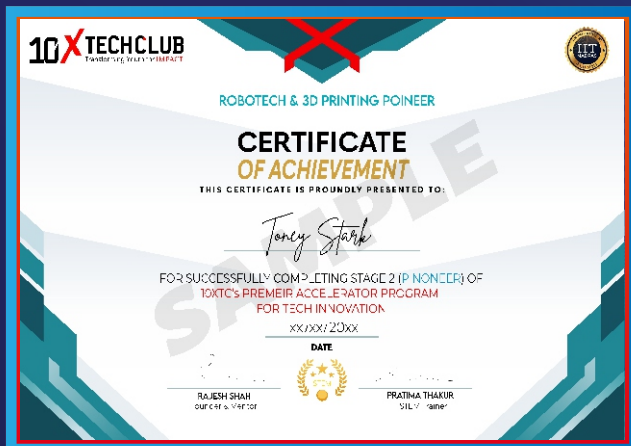


PRIYANKA NADIG

Senior Technical Lead, Additive Manufacturing, Cyient
Expertise: Additive Manufacturing, Industry 4.0, Digitization

and more.

CERTIFICATION STAGES



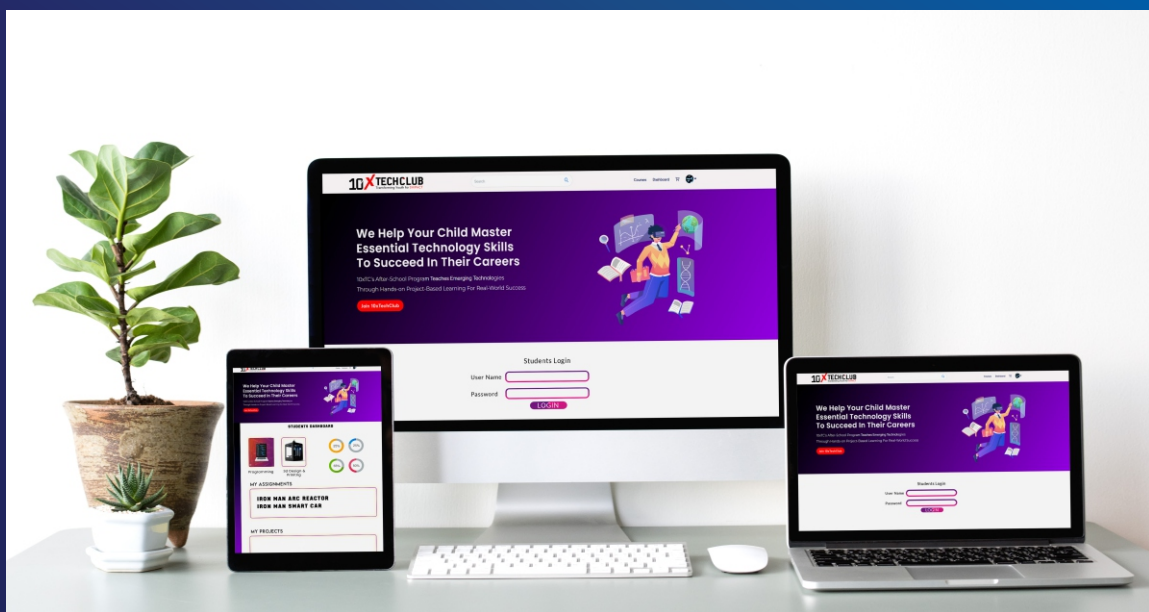
STAGE CERTIFICATE

FINAL CERTIFICATE



10xTC Online Learning Platform Highlights

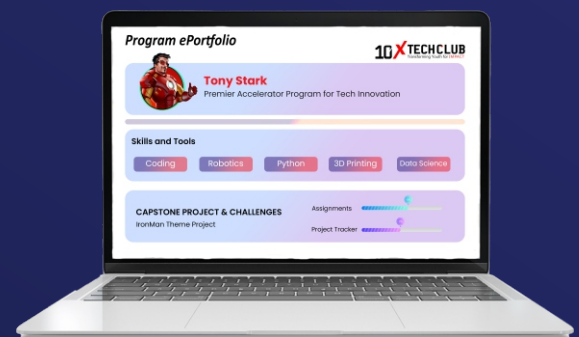
- Seamlessly accessible via both web and mobile app
- Empower learners with personalized dashboards & Real-time progress tracking
- Unlock a wealth of course materials, resources, and guides
- Engage with a vibrant community and enriching webinars



All your Learners' Needs, in One Place!

e-PORTFOLIO

The e-Portfolio is a curated compilation of student work, showcasing progress, accomplishments, and growth. It serves as a powerful testament of achievements, enhancing college applications and enabling seamless sharing across social platforms.



*Actual e-Portfolio may vary in appearance and content.

STILL CURIOUS ... WHY JOIN THIS PROGRAM?

Premier Accelerator Program for Tech Innovation helps students **Grow 10x** in a short span of 12 months.

In this program students,



Learn both tech skills and other important abilities for all-around growth



Boost innovation, creativity, problem-solving & analytical skills with cool projects



Build a strong STEM portfolio for career success and stand out amongst competition



Develop the right mindset to reach ones potential and make a difference



Explore technical passions and delve into frameworks that foster exponential growth



Take on challenges and create with new tech for 12 months

"If we can groom future sports champions from a young age, why can't we nurture students during school years to discover their potential and foster innovation?"

Rajesh Shah, Founder & Mentor, 10xTechClub

ELIGIBILITY

- Students aged 11 - 17 or Grades 6 to 12
- Tech enthusiasts and Science believers!!
- Basic laptop operations and Windows familiarity
- No prior coding experience required
- Curiosity for embracing novel ideas and exploring concepts

HOW TO APPLY

- Call Us or WhatsApp us for program details: 9766010910
- Visit our Learning Center to check the facilities
- Understand the outcomes of topics covered
- Join the program
- Begin the journey to Accelerate your Growth




10X TECH CLUB

Transforming Youth for **IMPACT**

www.10xTechClub.com



CONTACT US

 10xTechClub, 3rd Floor, Above Third Wave Coffee, OnePlace, Salunke Vihar Road, Wanowrie, Pune - 40

 hello@10xtechclub.com

 **9766010910**



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To Know More