



# Manan Sethia

Curious learner and Computer Science enthusiast.

## CONTACT

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## TECHNICAL SKILLS

### LANGUAGES

Python, C++ (STL), C, Java, SQL, HTML, CSS, JavaScript

### AI & ML

OpenCV, PyTorch, scikit-learn, pandas, NumPy, Matplotlib, Jupyter

### WEB & APP DEV

Flask, Django, Jekyll, MIT App Inventor, GitHub Pages

### SYSTEMS & IOT

Linux, Raspberry Pi, ESP32, Arduino, Embedded Systems, Robotics

### DEVOPS & CLOUD

Git, GitHub, Docker, CI/CD, Proxmox, Cloudflare, SSH

### CYBERSECURITY

Metasploit, Wireshark, Burp Suite, Nmap, Kali Linux, Cryptography

### CORE CS

DSA, Competitive Programming, OOP, DBMS, System Design

## PROFESSIONAL SKILLS

Team Leadership, Event Management, Mentorship, Public Speaking, Presentation, Academic Writing

## EDUCATION

### Nanyang Technological University

Bachelor of Computing (Hons) in CS  
2026 – 2030 | Singapore  
Specialisations: Cyber Security, AI

### Krishna Public School, Kamal Vihar

Grade 1 – 12 | 2014 – 2026  
Raipur, Chhattisgarh, India  
Stream: PCME + Computer Science

## EXPERIENCE

- Buildabot Labs Private Limited** May 2026 – Present
  - Chief Technology and Innovations Officer (CTIO)**  
Leading technology strategy and engineering at FSTI's technology subsidiary. Building database systems, backend servers, company website, and RAG AI assistant. Architected an emulation playground for virtual project testing.
- First Step Innovations (FSTI)** Apr 2026 – Jul 2026
  - R&D Intern**  
Worked on full-stack projects: e-commerce web app, AI career counselling platform, and drone assembly simulator. Handled technical documentation, QA testing, and daily progress reporting.
- Krishna Public School, Kamal Vihar** Apr 2016 – Mar 2026
  - Headboy, Student Council** Jul 2025 – Feb 2026  
Led student council overseeing 18 clubs, editorial board, and 97 members. Managed XPLOA, KPSPMUN, and Annual Function.
  - Problem Setter, I-Code** Aug 2024 – Oct 2025  
Designed algorithm and logic questions for coding competitions across difficulty levels.
  - Advisor & Coordinator, Xplora** Nov 2022 – Nov 2025  
Coordinated flagship tech fest with robowars, ideathons, and gaming; managed outreach and finances.
  - Innovator & Mentor, ATL Club** Jul 2022 – Mar 2026  
Built prototypes with embedded systems; mentored juniors on robotics and IoT projects.
  - Technical Lead, Coder's Club** Jul 2019 – Mar 2026  
Member → Vice President → President → Mentor  
Hosted workshops on CP, ML, and cybersecurity; championed Linux adoption; guided students.
  - Quiz Organizer & Mentor, QPL** Apr 2016 – Mar 2026  
Represented school in national quizzes; organized intraschool events across diverse domains.

## PROJECTS

### MRIDA | Multipurpose Real-time Integrated Digital Analyzer | 2023 – 2025

AI-powered soil health analyzer on Raspberry Pi 5. Features 8-in-1 soil sensing, 4G/GPS, emergency alerts, and speech assistant. Won Data & AI Talks, Top 1000 Youth Ideathon, INSPIRE MANAK, Jr. SIH.

### MATRIX | Desktop Voice Assistant | 2021 – 2022

JARVIS-inspired assistant with Python, Tkinter. Speech/text interaction, weather, news, and hand-drawn GUI.

## CERTIFICATIONS

- Google Cybersecurity Professional Certificate** (Coursera)
- IBM Ethical Hacking with Open-Source Tools** (Coursera)
- Programming and DSA Courses** by CodeChef for:
  - Python
  - Java OOP
  - C/C++ with STL

## ACHIEVEMENTS

### International

**Gold Award (ESP) and Bronze Medal (Individual)** at IESO 2024 in Beijing; represented India (Aug 2024)

Selected for **BeyondQuantum 2025**, a 12-week international research program on Quantum Computing (Mar 2025)

**Felicitated by HBCSE-TIFR** as International Olympiad Medalist; awarded scholarship (Dec 2024)

- High Distinction** in International Chemistry Quiz by RACI, Australia (Mar 2024)

## Programming, Innovation & Computing

**AIR 10** in HPE Codewars 2025 among 6,000+ participants (Apr 2025)

**AIR 17** in IIT Madras Shaastra Programming Contest 2026 among 18,000+ participants (Dec 2025)

**National Finalist**, Shaastra CP Potpourri 2026 (IIT Madras) (Dec 2025)

**Silver Medalist**, Future Tech Olympiad 2026 by 1M1B and IBM SkillsBuild (Feb 2026)

**Winner**, Code 2 Champions at ITM University Raipur; only school student (Apr 2025)

**Winner**, Coding Competition at Nexus 2K24 by SSIPMT; solved finals in 4 minutes (Nov 2024)

**Champion**, Data and AI Talks 2023 by iGebra; awarded iPad and trophy (Aug 2023)

- **Top 1,000** nationally, Youth Ideathon 2023 (CBSE + ThinkStartup) (Oct 2023)
- **Qualified DLEPC**, INSPIRE MANAK Awards 2023 by DST; awarded Rs. 10,000 (Feb 2024)
- Shortlisted for **National Rounds**, Junior Smart India Hackathon 2023 (Jan 2024)

## National Olympiads

**Qualified for National Camp**, INESO 2025 (Mar 2025)

**Zonal Topper**, ZCO 2024; qualified for INOI (Dec 2024)

**Stage 2 Qualifier**, INAIO 2025 by ACM India (Jan 2025)

## Quizzing

**Winner**, Clash of Campus Quiz at IIIT Naya Raipur Technovate 7.0; only school participant (Mar 2026)

**2nd Runner-Up**, Wonga Wits Finance Quiz S2 by Yes Securities; only school student (Nov 2025)

**1st Runner-Up Nagpur**, TCS InQuizitive 2025; only CG team (Aug 2025)

**Winner IIM Bhilai**, Brahmaprakash Memorial Materials Quiz 2025; qualified Nationals (Aug 2025)

**Winner Bhopal Region**, SBI Scholar Quiz 2025; Rs. 50,000 scholarship (Jun 2025)

- **Winner**, Earth Day Quiz 2025 by NEHU Shillong (Apr 2025)

**1st Runner-Up Nagpur**, TCS InQuizitive 2024 (Nov 2024)

- **1st Runner-Up**, Technical Quiz at Nexus 2K24 (Nov 2024)
- **Winner**, GK Quiz at Mindspark 2024 (Oct 2024)
- **Special Mention (UNGA)**, KPS MUN 3.0 (Oct 2024)

**1st Central Zone**, SEBI Financial Literacy Quiz 2024 (May 2024)

**Runner-Up Bhubaneswar**, CBSE Heritage India Quiz 2023 (Dec 2023)

- **Winner**, Tech Quiz at Nexus 2K23 (Nov 2023)

**National 1st Runner-Up**, Ultimate Sports Quiz S2; aired on JioHotstar (Sep 2023)

**All India Top 5**, Mind Wars 2023 (May 2023)

**National 1st Runner-Up**, CBSE Heritage India Quiz 2022; New Delhi finals (Jan 2023)

- **Winner**, Paryavaran Paheli ECO Quiz 2022 (Nov 2022)
- **City Champions Raipur**, INTACH Heritage Quiz 2022 (Oct 2022)
- **Winner**, Shine COSMO GK Quiz 2022 (Sep 2022)

**State Champions CG**, Fit India Quiz Season 1 (Jun 2022)

- **National Qualifier**, WWF Wild Wisdom 2021 (Oct 2021)
- **Zonal 2nd Runner-Up**, Wild Wisdom 2019 (Oct 2019)
- **AIR 23**, All India Astronomy Test 2018 (Jan 2019)
- **Winner**, Spell Bee at Excella Fest 2018 (Oct 2018)
- **Zonal 1st Runner-Up**, Wild Wisdom 2018 (Sep 2018)
- **2nd Runner-Up**, QPL 2.0 Earth Day Family Quiz (Apr 2016)