

AIRA SEEDHER

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EDUCATION

National Public School, Indiranagar

Bangalore, India - Central Board of Secondary Education (CBSE) Curriculum, Grade 9,10,11,12

2025

STANDARDIZED TESTS

- **SAT Reasoning Test:** Composite Highest Score - 1520;
Math - 790; English - 740 ;

2025

- **Advanced Placement (AP):** AP Scholar with Distinction

Calculus(BC) - 5;

2025

Calculus (ABSubscore)- 5;

2025

Physics C: Mechanics– 4 ;

2025

Computer Science A - 5;

2025

Statistics - 5;

2024

Psychology - 5;

2024

- **Toefl:** Composite Score - 117;

Reading - 30; Listening - 29 ; Speaking - 30; Writing - 28;

2025

TECHNOLOGY PROJECTS

- **SITESNAP :**

- **Website Link:** <https://www.sitesnap.org.in/>
- **Founded and self-managed Sitesnap**, an independent web development venture driven by passion for technology and creative design.
- **Published seven fully functional websites** catering to diverse purposes, including social initiatives, personal portfolios, and small business showcases.
- **Developed strong client collaboration skills** by understanding unique requirements, customizing website features, and ensuring user satisfaction.
- **Monetized the venture** by charging small fees for larger-scale projects, gaining hands-on experience in managing finances and client negotiations.
- **Conducted web development sessions** for juniors and peers, fostering interest in technology and sharing practical knowledge.
- **Enhanced leadership, communication, and technical expertise** through real-world project management and client interaction.
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- **LEFTOVER LOVE (LELO):**

- **Pitch Video Link:** <https://youtu.be/gKpVPa2a2fo?si=0S5h3LHAEY8oq08B>
- **Developed an app titled Leftover Love or LELO** as part of the Technovation Girls Challenge, focused on addressing a social issue through technology.
- **Designed and coded the app** to serve as a digital bridge connecting restaurants with surplus food to local NGOs for redistribution to those in need.
- **Worked on both the technical and strategic aspects**—from app development to preparing and delivering a business pitch for the competition.
- **Gained hands-on experience** in app design, coding, and prototype testing while enhancing communication and presentation skills.
- **Strengthened managerial and entrepreneurial skills** through coordinating project goals, managing time, and aligning social impact with technological innovation.

COMMUNITY SERVICE & ENTREPRENEURSHIP

• TECH4BHARAT :

- Website Link: <https://www.tech4bharat.org.in/>
- Founded Tech4Bharat, a self-initiated social venture aimed at bridging the digital divide among underprivileged communities across India.
- Expanded the initiative across 6 states, reaching over 3,000 individuals through digital literacy and technology education programs.
- Designed structured curricula tailored to different age groups, covering topics such as online browsing, social media awareness, and cybersecurity basics.
- Led and managed a diverse team of 15+ volunteers from across India, coordinating teaching sessions, training efforts, and community engagement.
- Independently developed the project website and managed outreach operations to streamline communication and participant registration.
- Strengthened leadership, organizational, and technical skills, while gaining a deeper understanding of social responsibility and the power of technology for change.

• TUTORING:

- Volunteered as a tutor for 25–30 students at an underprivileged school near my community, focusing on improving access to quality education.
- Taught middle school–level Mathematics, English, and grammar concepts during weekends and summer breaks throughout high school.
- Planned and conducted interactive lessons that helped students strengthen their understanding of key academic topics.
- Developed strong communication, patience, and teaching skills while learning to adapt explanations to different learning styles.
- Gained a deeper appreciation for educational equity and the importance of mentorship in empowering underprivileged youth.

• PROJECT CRIMSON:

- Project Report Link: https://drive.google.com/file/d/1wsF7i-B7F3_1TgKK6694BWoQNozwu_jh/view?usp=sharing
- Co-founded Project Crimson and initiated a community health camp aimed at improving child healthcare access in underprivileged areas.
- Collaborated with 13 medical professionals to conduct pediatric, eye, and dental checkups for over 80 children aged 1–16 years.
- Handled end-to-end event planning, including school outreach, parent coordination, scheduling, and on-site logistics.
- Managed catering, finances, and fundraising efforts, personally collecting donations to support the cause.
- Ensured meaningful medical outcomes, with 1 in 10 children identified as needing prescription glasses and 70% referred for further dental care.
- Strengthened organizational, leadership, and financial management skills, while gaining practical experience in community service and healthcare outreach.

EXTRA COURSES

• IIT Madras School Connect Program:

- Completed a 8-week course on Introduction to Data Science and Artificial Intelligence conducted by IIT Madras.
- Achieved over 90% in all weekly assignments and earned a certificate of completion for strong performance in the final exam.
- Gained a comprehensive understanding of foundational AI and data science concepts through lectures, projects, and continuous assessments.
- Deepened academic interest in technology, analytics, and artificial intelligence, inspiring further exploration in these fields.

• IBM- What is Data Science?:

- Certificate Link: <https://coursera.org/share/f0a43b59f35ef245efe98bc4f80b1984>.
- Completed IBM's "What is Data Science?" course (11 hours) with a grade of 87.66%.
- Gained insights into the career paths and roles within data science.
- Learned key advice from experienced data science professionals and developed a foundational understanding of the field.

• ARM Education - Introduction to Microprocessors:

- Certificate Link: <https://coursera.org/share/110618f672b313b1a95b2f1a3c9698a7>
- Completed ARM Education's "Introduction to Microprocessors" course (11 hours) with a grade of 100%.
- Learned about the purpose and specifications of CPUs, including their core components and operations.
- Understood the differences between RAM, ROM, and cache, along with the functions of buses and registers in computer architecture.

• University of Leeds- An Introduction to the Logic of Computer Science:

- Certificate Link: <https://coursera.org/share/bf0d742a482c16226fdf5f98df2495de>
- Completed University of Leeds' "Introduction to Logic of Computer Science" course (7 hours) with a grade of 100%.
- Gained an understanding of how to derive solutions from modelled programs and the role of logic in computer science.

• Google Cloud- Introduction to Generative AI?:

- Certificate Link: <https://coursera.org/share/577026f862815eaa7277e6811e6981a7>
- Completed Google Cloud's "Introduction to Generative AI" course (1 hour) with a grade of 100%.
- Gained an understanding of core concepts and applications of generative AI.

• Google Cloud- Introduction to Large Language Models:

- Certificate Link: <https://coursera.org/share/877955d3a2da5ef64556df22844836df>
- Completed Google Cloud's "Introduction to Large Language Models" course (1 hour) with a grade of 100%.
- Gained an understanding of LLM use cases and prompt tuning.

• Google Cloud- Introduction to Responsible AI:

- Certificate Link: <https://coursera.org/share/8ec0ab054c8878775123e951d50292a>

- Completed Google Cloud's "Introduction to Responsible AI" course (1 hour) with a grade of 100%.
- Gained an understanding of AI Principles and Impact of Responsible AI.

INDEPENDENT RESEARCH

• Paper on 'Skill Gap in AI: Industry's Demand vs India's Workforce Readiness':

- **Research Link:** https://drive.google.com/file/d/1liD_sso_XCvyaZeRGWoGLOcOO8Gr7wYD/view?usp=sharing
- Independently researched and authored a paper on AI skill gaps in India, analyzing the mismatch between industry demand and workforce readiness.
- Examined factors contributing to the gap, including outdated curricula, limited hands-on training, regional disparities, and corporate training shortcomings.
- Highlighted the projected shortage of over 1 million AI professionals by 2027 and implications for India's global AI competitiveness.
- Evaluated government initiatives such as IndiaAI Mission, Digital India Bhashini, and National Centres of Excellence for Skilling aimed at bridging AI skill disparities.
- Reviewed corporate and EdTech interventions, including Microsoft ADVANTA(I)GE INDIA, vocational training, and AI-driven learning platforms, focusing on inclusive and practical skill development.
- Proposed solutions emphasizing work-integrated learning, continuous reskilling, curriculum updates, soft skills development, and gender/regional inclusion to prepare India's workforce for an AI-driven future.

• Paper on 'AI for CyberSecurity':

- **Research Link:** https://drive.google.com/file/d/1yqayV3-cm0ExWV39b2LgMEY_rycr_NUR/view?usp=sharing
- Conducted research on the critical role of cybersecurity in the digital era, highlighting growing threats such as ransomware, data breaches, and state-sponsored attacks.
- Explored AI-driven cybersecurity solutions, including threat detection, automated incident response, user behavior analytics, and predictive defense mechanisms.
- Analyzed real-world case studies, such as the Arup deepfake fraud incident, illustrating both the risks and benefits of AI in cybersecurity.
- Reviewed emerging AI techniques and tools, including machine learning, deep learning, SIEM, NDR, and SOC automation, to enhance threat mitigation and operational efficiency.
- Identified challenges and risks with AI adoption in cybersecurity, including adversarial attacks, ethical concerns, regulatory compliance, and dual-use threats.
- Highlighted the future of AI in cybersecurity, emphasizing proactive, scalable, and adaptive defense strategies essential for safeguarding digital assets in an increasingly connected world.

SCHOOL COMMUNITY AND LEADERSHIP

• Student Council : House Vice-Captain:

- Elected Vice-Captain of Explorer's House (Grade 11) by a body of over 100 students and teachers, demonstrating peer and faculty trust in leadership capabilities.
- Led and coordinated 400 house members, organizing inter-school, cultural, academic, and sports events to ensure smooth execution and high participation.
- Planned and managed school-wide celebrations and competitions, enhancing organizational, logistical, and event management skills.
- Developed strong leadership, team management, and interpersonal skills by mentoring house members and fostering collaboration across diverse groups.
- Represented the house in inter-school and intra-school activities, bridging communication between students, faculty, and administration.

• PR Head : Interschool Regium Fest:

- Served as PR Head for the Inter-School Cultural Fest, managing outreach to 10+ schools and coordinating communication with student participants and faculty.
- Oversaw logistics and operational planning for the event, ensuring smooth functioning of multiple teams and on-the-day activities.
- Managed technical aspects including sound and stage arrangements, contributing to a seamless event experience for over 200 participating students.
- Demonstrated strong organizational, planning, and multitasking skills through meticulous coordination of pre-event preparations and real-time problem-solving.
- Contributed to a successful, high-impact cultural fest, enhancing the school's visibility and fostering engagement with external institutions.

• Event Head : Interschool Mathrix Fest:

- Conceptualized and organized the Interschool Matrix event, designing a unique competition combining board games like Taboo, Jeopardy, and Tambola with mathematical problem-solving elements.
- Successfully coordinated registration and participation from 7+ schools, managing communication, schedules, and participant engagement.
- Oversaw event flow, judging criteria, and volunteer management, ensuring smooth execution from start to finish.
- Demonstrated strong leadership, organizational, and multitasking abilities by managing multiple teams, logistics, and real-time challenges during the event.
- Delivered a highly engaging and well-structured interschool event, enhancing collaboration and fostering a competitive yet fun learning environment.

• **Athletic Achievements:**

-	Throwball Overall Runners-up (Silver): Interschool VIVUM Tournament	2025
-	Throwball Overall Winners (Gold) : Interschool VIVUM Tournament	2024
-	Throwball Overall Runners-up : Interhouse Throwball Tournament	2025
-	Tennis Overall Winner: Intershouse Tennis Tournament	2024
-	Tennis Overall Winner : Interhouse Tennis Tournament	2023
-	Football Overall Runners-up : Interhouse Football Tournament	2024
-	Table Tennis Overall Third Place: Interhouse Table Tennis Tournament	2024
-	Cricket Overall Winner: Interhouse Cricket Tournament	2024
-	Volleyball Overall Runners-up : Interhouse Volleyball Tournament	2023
