

# Saptarshi Bose

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## EDUCATION

### Vellore Institute of Technology

Amaravati, Andhra Pradesh

B.Tech. in Computer Science and Engineering (Hons.)

Expected Graduation, September 2028

- **Concentrations:** Artificial Intelligence and Machine Learning
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Deep Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

### Modern Public School

Chandannagar, West Bengal

Higher Secondary

March 2024

- **Concentrations:** Pure Science with Computer Science
- **Subjects:** Physics, Chemistry, Mathematics, Computer Science and English

## EXPERIENCE

### University of Brighton

Remote Internship

Summer School Student

July 2025

- Designed the concept, narrative, and progression system for Echoes of Eldoria, a mobile 2D puzzle-adventure game.
- Built user-centric gameplay loops and mobile-first UX aligned with usability and accessibility principles.
- Produced usability, accessibility, web-standards, and cybersecurity documentation for the game's design.
- Styled HTML/CSS UI components and delivered a concise design brief with ethical, user-focused development guidelines.

### Center of Excellence in Artificial Intelligence and Robotics, VIT-AP

VIT University, Andhra Pradesh

Student Researcher

March 2025 – Present

- Gained hands-on experience with Arduino, ESP32, servos, and IoT systems for robotics applications.
- Collaborated on robotics projects, contributing to interdisciplinary teamwork and technical problem-solving.
- Explored core robotics concepts such as inverse kinematics and motion dynamics through practical experiments.
- Built a strong foundation in AI/ML with experience in model training and practical intelligent system design.

### The Machine Learning Club VITAP

VIT University, Andhra Pradesh

Team Lead, Deep Learning Team

November 2024 – Present

- Led the Deep Learning team, guiding junior and senior members through projects, research workflows, and technical problem-solving.
- Hosted workshops and technical events to strengthen the team's understanding of deep learning concepts and practical applications.
- Oversaw recruitment, screening, and onboarding of new members to build a skilled and collaborative technical team.
- Contributed hands-on to core deep learning projects, ensuring high-quality outputs and alignment with team objectives.

### Freelance

Remote/On-Site

Developer

Present

- Designed and developed responsive websites and apps with clean UI, smooth functionality, and client-focused execution.
- Delivered end-to-end freelance projects across domains, including full website builds like: [medisparxstudios.com](#)

### BONGOJO - The Bengali Association Of VIT-AP

VIT University, Andhra Pradesh

Social Media Team Member

January 2025 – March 2025

- Collaborated on creating and editing engaging reels, including conceptualizing and refining their plot to boost audience interaction.
- Actively participated in organizing and promoting cultural events and functions, fostering a vibrant community atmosphere.
- Supported the team in highlighting Bengali culture through creative digital content and event management.

## PROJECTS

### Vtron

Chandannagar, West Bengal

Developer

August 2024

- Developed a Python-based voice assistant with a graphical interface (GUI) to automate daily tasks, fetch news, and solve mathematical queries through voice commands.
- Integrated APIs for weather updates, email automation, and scheduling, allowing users to manage tasks seamlessly using natural language processing.

<b>Safyra</b> <i>Developer</i>	<b>VIT University, Andhra Pradesh</b> <i>April 2025</i>
<ul style="list-style-type: none"> <li>Developed a Python-based personal safety platform, Safyra, featuring a web dashboard to simulate smart ornament functionalities, providing real-time threat detection, emergency alerts, and evidence recording for women's safety.</li> <li>Integrated APIs for mock IoT data (e.g., battery status, video streams), AI-driven threat analysis (using OpenCV, Python), and a subscription model (\$5-\$15/month), with B2B partnerships for jewelry brands and security firms, ensuring a seamless software-driven safety solution.</li> </ul>	

ACTIVITIES AND LEADERSHIP

<b>Modern Public School</b> <i>School Captain</i>	<b>Chandannagar, West Bengal</b> <i>April 2024–December 2024</i>
<b>Modern Public School</b> <i>School Representative</i>	<b>Chandannagar, West Bengal</b> <i>June 2018 – December 2024</i>
<ul style="list-style-type: none"> <li>Represented the school in multiple interschool competitions, including debates, scrabble, Olympiads, and talent search exams, showcasing leadership and academic excellence across diverse events.</li> </ul>	
<b>VIKAS 2024</b> <i>Contributor</i>	<b>VIT University, Andhra Pradesh</b> <i>November 2024</i>
<ul style="list-style-type: none"> <li>Presented my project "Vtron" at the VIKAS 2024 Tech Expo, demonstrating its innovative features and real-world applications.</li> <li>Engaged with visitors, explaining technical concepts and gathering feedback to enhance the project further.</li> <li>Collaborated with peers showcasing projects on blockchain and robotics, contributing to a dynamic and insightful event experience.</li> </ul>	

Academic and Extracurricular Achievements

<b>FyrstGen Ideation Challenge 2025</b> <i>Winner</i>	<b>VIT University, Andhra Pradesh</b> <i>November 2025</i>
<ul style="list-style-type: none"> <li>Secured a winning position at FyrstGen Ideation Challenge 2025 for Safyra, standing out among national participants across multiple interdisciplinary domains.</li> </ul>	
<b>September Sprint Hackathon</b> <i>Winner</i>	<b>VIT University, Andhra Pradesh</b> <i>September 2025</i>
<ul style="list-style-type: none"> <li>Won 1st place at the VIT-AP Android Club Hackathon for developing a farmer-focused digital assistant with real-time insights, DL/ML-based predictions, and multilingual support.</li> </ul>	
<b>National Innovation Day</b> <i>Event Awardee</i>	<b>VIT University, Andhra Pradesh</b> <i>October 2025</i>
<ul style="list-style-type: none"> <li>Awarded at IIEC VIT-AP on National Innovation Day 2025 for Safyra, an innovative smart-jewelry solution for women's safety.</li> </ul>	
<b>VIKAS 2024</b> <i>Contributor &amp; Event Awardee</i>	<b>VIT University, Andhra Pradesh</b> <i>November 2024</i>
<ul style="list-style-type: none"> <li>Recognized as an awardee at VIKAS 2024 Tech Expo for contributing and presenting Vtron, engaging visitors and demonstrating its practical capabilities.</li> </ul>	
<b>Decoding Development: A Data-Driven Dashboard for India Growth Metrics</b> <i>2<sup>nd</sup> place winner</i>	<b>Let's Code, Online</b> <i>June 2025</i>
<ul style="list-style-type: none"> <li>Achieved 2nd place in the Let's Code Decoding Development challenge for creating an interactive, data-driven dashboard on India's key growth indicators.</li> </ul>	

SKILLS

**Programming:** Java, Python, C, C++, HTML/CSS, JavaScript, MATLAB, OOP, R

**Tools:** VS Code, Git, GitHub, Jupyter Notebooks, MongoDB, Figma, Postman, Virtual Box, Google Forms, AWS

**Soft skills:** Leadership, Group discussions, Entrepreneurship, Debates, Speech, Anchoring, Extempore

LANGUAGES

**English:** Full professional proficiency.

**Bengali:** Native or bilingual proficiency.

**Hindi:** Limited working proficiency.