

Saptarshi Bose

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EDUCATION

Vellore Institute of Technology

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

Amaravati, Andhra Pradesh

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

Higher Secondary

Chandannagar, West Bengal

March 2024

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

EXPERIENCE

University of Brighton

Summer School Student

Remote Internship

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

Student Researcher

VIT University, Andhra Pradesh

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

Team Lead, Deep Learning Team

VIT University, Andhra Pradesh

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

Developer

Remote/On-Site

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

Social Media Team Member

VIT University, Andhra Pradesh

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

Developer

Chandannagar, West Bengal

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.

Safyra Developer

VIT University, Andhra Pradesh
April 2025

- 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.
- 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.

ACTIVITIES AND LEADERSHIP

Modern Public School School Captain

Chandannagar, West Bengal
April 2024–December 2024

Modern Public School School Representative

Chandannagar, West Bengal
June 2018 – December 2024

- Represented the school in multiple interschool competitions, including debates, scrabble, Olympiads, and talent search exams, showcasing leadership and academic excellence across diverse events.

VIKAS 2024

Contributor

VIT University, Andhra Pradesh
November 2024

- Presented my project "Vtron" at the VIKAS 2024 Tech Expo, demonstrating its innovative features and real-world applications.
- Engaged with visitors, explaining technical concepts and gathering feedback to enhance the project further.
- Collaborated with peers showcasing projects on blockchain and robotics, contributing to a dynamic and insightful event experience.

Academic and Extracurricular Achievements

FyrstGen Ideation Challenge 2025

VIT University, Andhra Pradesh
November 2025

Winner

- Secured a winning position at FyrstGen Ideation Challenge 2025 for Safyra, standing out among national participants across multiple interdisciplinary domains.

September Sprint Hackathon

VIT University, Andhra Pradesh
September 2025

Winner

- 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.

National Innovation Day

VIT University, Andhra Pradesh
October 2025

Event Awardee

- Awarded at IIEC VIT-AP on National Innovation Day 2025 for Safyra, an innovative smart-jewelry solution for women's safety.

VIKAS 2024

Contributor & Event Awardee

VIT University, Andhra Pradesh
November 2024

- Recognized as an awardee at VIKAS 2024 Tech Expo for contributing and presenting Vtron, engaging visitors and demonstrating its practical capabilities.

Decoding Development: A Data-Driven Dashboard for India Growth Metrics

Let's Code, Online
June 2025

2nd place winner

- Achieved 2nd place in the Let's Code Decoding Development challenge for creating an interactive, data-driven dashboard on India's key growth indicators.

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.