

## EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	Computer Science & Engineering(AI)	CSVТУ, Bhilai	2025-Present	7.9
HSC BIEAP	Mathematics, Physics, & Chemistry	Chaitanya College	2021	9.5
SSC	-	Sri Chaitanya	2019	9.7

## SUMMARY

- Self-motivated Computer Science undergraduate with hands-on experience in **AI/ML**, NLP. Passionate about creating intelligent and scalable software solutions.
- Developed and deployed projects including an object detection system using **Binary Neural Networks (BNNs)**, NLP-powered chatbots, sentiment analysis models, and multilingual processing tools during an internship.

## WORK EXPERIENCE

- Research Intern [Indian Institute of Space Science and Technology, IIST Trivandrum ]** *Jan-Jun 2024*
  - Designed and developed an object detection system powered by **Binary Neural Networks (BNNs)**, enabling high accuracy with low computational overhead, suitable for edge and embedded environments. **Improved model efficiency by 35%**, supporting real-time object classification. diverse scenarios.
  - Optimized training pipelines** with pruning, quantization, and custom learning schedules to achieve lightweight deployment without sacrificing accuracy.
  - Achieved a **40% boost in robustness** on **PASCEL VOC** and similar data sets.

## PROJECTS

- AI Chatbot Using NLP and Deep Learning**
  - Integrated external APIs for real-time responses, enhancing user experience by **40%**.
  - Formulated an AI chatbot using **RNNs and Transformer models**, improving conversational fluency by **35%**.
- CSVТУ Website Enhancement**
  - Redesigned the CSVТУ website using HTML, CSS, and JavaScript, improving user engagement by 88%.
  - Implemented dynamic UI elements for smoother navigation and enhanced interactivity.
  - Ensured cross-browser compatibility and responsiveness for all devices.
- TORUSIM Website**
  - Created a visually appealing and responsive frontend using HTML, CSS, and JavaScript .
  - Implemented smooth animations and intuitive navigation to enhance the user experience.
  - Ensured optimal performance across different devices and browsers.

## TECHNICALSKILLS

- Languages:** Python, C, C++, SQL.
- Tools:** VS Code, GitHub.
- Web Technologies:** HTML, CSS, JavaScript.
- Libraries & Frameworks:** NumPy, Pandas .
- Relevant Skills:** Machine learning,Artificial Intelligence,Deep learning,AWS.

## SOFTSKILLS

- Took full ownership of designing and deploying a BNN-based object detection system, achieving 85% accuracy and deploying for real-time testing.Drove the project from conception to deployment, demonstrating initiative, adaptability, and effective time management

## ACHIEVEMENTS AND CERTIFICATIONS

- 18 Weeks Internship Certificate** – IIST Trivandrum
- R for Data Science Certification**
- Machine-Learning & Artificial Intelligence Online Internship** – Hexenbit Info Solutions
- Management Information System** – Nptel
- Algorithmic Game theory** – Nptel