## **BIPRA BISWAS**

Computer Science Graduate

Vellore Institute of Technology (2021-2025)

Visa Status: Permanent Resident (Japan) Phone: +81 80-7074-5577

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A dedicated and high-achieving Computer Science graduate with a specialization in Artificial Intelligence and Robotics. Possesses a strong academic foundation in algorithms, data structures, machine learning, and software development. Passionate about technology and innovation, actively seeking a dynamic entry-level role to apply skills and grow further in the industry. Recognized for strong problem-solving abilities, attention to detail, and a collaborative mindset, with a drive to make a meaningful impact in the tech world.

Language:

Japanese JLPT N3 (Not passed), English (Business), Hindi(native), Bengali(native)

## Professional Experience Academic Collaboration – TCS Japan (Mentor: TCS Employee) Internship (unofficial) OCT to NOV 2023 Developed a Digital Smart Lock System with IoT and embedded technologies. Implemented RFID, fingerprint, and keypad authentication for enhanced security. Optimized hardware-software integration for performance and efficiency. Guided by a mentor with experience Tata Consultancy Services (TCS) Japan.

Projects Projects		
	Vellore Institute of Technology	2021-2025
SafeOut : Smart Health Advisory System	weather, activity levels, and user data.	that provides personalized wellness recommendations based on real-time nalerts, and UV exposure warnings, enhancing proactive health management.
Virtual Whiteboard using Machine Learning in Python	<ul> <li>Developed a virtual whiteboard app with real-time dra model improvement.</li> <li>Implemented gesture-based controls and multi-user su</li> </ul>	wing and handwriting recognition, achieving 90% accuracy through iterative apport to enhance functionality.
Walking Obstacle Detecting Bot using ROS:	and navigation, achieving a 95% success rate in field to	using the Robot Operating System (ROS) for autonomous obstacle detection ests.  Didance algorithms to enhance the robot's autonomous capabilities.
Facial Recognition & Emotion Detection System	techniques.	at detects and classifies emotions using deep learning and computer vision as in user engagement, mental health assessment, and security monitoring.
VisionX: AI-Powered Video Surveillance System	Gemma with Ollama	e system for real-time anomaly detection in smart cities using OpenCV and omated alerts, enhancing public safety through proactive monitoring.

Course	Institute	Year	%/CGPA
B.Tech in Computer Science and Engineering with specialization in Artificial Intelligence and Robotics	Vellore Institute of Technology	2025	7.6/10
Class 12th	India international school in Japan	2021	82%
Class 10th	India international school in Japan	2019	80%

Skills		
Interpersonal	Strong interpersonal skills, Proactive and self-motivated, Leadership skills	
Languages	C, Python, SQL, HTML,CSS, JS, R programming	
Technologies	Data Structures and Algorithms (DSA), Web Development (WebD), Machine Learning and its libraries, Object oriented programming ,Artificial intelligence, Neural Networks , Software development lifecycle (SDLC)	
Libraries	Pandas, Numpy, Matplotlib, Scikit-Learn	
Tools	VS Code, Tableau, Power BI, Jupyter Notebook	
certifications	• NSDC Certified Python Programmer • Java Training – IIT Bombay Spoken Tutorial Program • PHP & MySQL Training – IIT Bombay Spoken Tutorial Program • Microsoft Certified: Azure Fundamentals	

Extra-Curricular Activi	ties:
Head, Venture Capitalist Club (NexSeed)	<ul> <li>Organized workshops and guest lectures to provide practical insights into venture capital and startup ecosystems.</li> <li>Coordinated pitch competitions, offering a platform for aspiring entrepreneurs to showcase ideas and receive feedback from industry experts.</li> <li>Increased club membership by 25% and fostered partnerships with local startups and venture capital firms for networking and mentorship opportunities.</li> </ul>
Member, Aerospace Club	<ul> <li>Collaborated on designing and building drones, gaining hands-on experience in aerospace engineering and teamwork.</li> <li>Conducted regular testing and refinement sessions to ensure the reliability and performance of aerospace models.</li> <li>Contributed to the development of technical documentation and project reports, enhancing communication and documentation skills within the team.</li> </ul>