IPSHITA BHARDWAJ

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PROFESSIONAL SUMMARY

B.Tech student in Robotics and Artificial Intelligence at Chandigarh Engineering College with a strong foundation in programming, data structures, and applied AI concepts. Passionate about building intelligent systems and continuously learning emerging technologies to contribute effectively to innovative engineering projects.

EDUCATION

Bachelor of Technology, Robotics and Artificial Intelligence   **2024-2028**
Chandigarh Engineering College, CGC   Landran, Mohali

WORK EXPERIENCE

Technical Mentor   **Jul 2025 – Oct 2025**
Digital Dreamers Project

- Mentored a student on a BCI-inspired software simulation that visualized cognitive states and brainwave activity using Python. Designed learning milestones, introduced core BCI and EEG concepts, and guided the development of a focus-tracking tool simulating real-time brain signals.

Co-Founder   **Oct 2025 – Present**
Entanglix Labs (College-Incubated Startup)   Mohali

- Contributed to the development and testing of IoT-based automation solutions. Assisted in prototyping connected systems using sensors and microcontrollers, and supported documentation and research for scalable, real-world IoT applications.

Technical Core Team Member   **Aug 2025 – Present**
Emergians, CEC, CGC   Mohali

- Coordinated tech events and workshops on AI, IoT, and Robotics; managed student engagement, live demos, and outreach showcases promoting hands-on innovation and learning.

PROJECTS

Python Code Refactor Tool | HTML, Python | Link: [Code-Refactor-Tool](#)
- A web-based tool that automatically analyzes and refactors Python code using AST parsing and intelligent algorithms. Perfect for improving code quality and learning best practices.

Illume | HTML, JavaScript, CSS, TypeScript | Link**:** [Illume](#)
- An interactive, mood-aware digital poetry experience. Ask a question, type a thought, and receive a poem that resonates with your current mood.

Focus Visualizer | Python, Streamlit | Link**:** [Focus Visualizer](#)
- A brain-simulated tool built with Streamlit to explore focus, brainwave patterns, and mindfulness — inspired by Brain-Computer Interface (BCI) systems but completely software-based.

TECHNICAL SKILLS

Languages | Python, JavaScript, C, C++, R, Ruby, SQL, HTML, CSS
Frameworks & Libraries | React, Node.js, NumPy, Streamlit
Developer Tools & Platforms| AWS, AutoCAD
Core Skills | Data Structures & Algorithms (DSA),Project Planning, Observational Analysis, Documentation Writing, Data Visualization

CERTIFICATIONS

- AWS Cloud Practitioner | **Amazon Web Services**
- AWS Knowledge: Cloud Essentials | Amazon Web Services
- AWS Well-Architected Proficient | Amazon Web Services
- **Cloud Computing |** IIT Kharagpur (NPTEL)
- Introduction to Virtual, Augmented, and Mixed Reality | Lancaster University & Institute of Coding
- Data Science Foundations Level 1 | IBM

ACHIEVEMENTS & RECOGNITIONS

- **1st Place** – *Innovators Hub: Project Display Competition*
  Chandigarh Engineering College (CGC Landran) in collaboration with GeeksforGeeks
  ➤ Recognized for innovative project demonstrating strong technical creativity and real-world application.
- **3rd Place** – *Technicia'25: Student Project Expo*
  Chandigarh University
  ➤ Awarded for developing an innovative tech project with practical implementation.
- **4th Rank (National Level)** – *Mind Your Metrics: Data Analytics Quiz*
  Indian Institute of Management (IIM) Rohtak
  ➤ Ranked among top 1% of 788 participants; demonstrated analytical reasoning and data interpretation skills.

ADDITIONAL ACTIVITIES

- Team Lead – Hackfest 2025 (Regional Round), CGC Landran | Led team in ideathon on "Preventing Digital Fraud" with an AI-based phishing detection concept.
- Participant – Smart India Hackathon (Internal Round) | Developed "STEM Quest", an interactive STEM learning platform with UI and solution design contributions.
- Hack Heist – Info-Tech Club, CGC Landran | Built an AI-powered website, gaining hands-on experience in teamwork and rapid prototyping.
- BuildFolio – Manipal University Jaipur (Unstop) | Designed and developed a personal portfolio website in 24 hours using HTML, CSS, and JS.
- Coordinator – "AI Unleashed: The Robotics Showcase", CGC Landran & Techcadd Mohali | Managed exhibits, planning, and live AI-Robotics demos.
- Coordinator – "EmergiTech 1.0: Hardware & IoT Workshop", CGC Landran | Oversaw event logistics and assisted participants in IoT prototyping sessions.
- Coordinator – "Future of UI: Bootcamp", CGC Landran | Gained exposure to AI-driven UI/UX design and industry-led creative workshops.
- Presented "Surveillance Car" model at Parivartan 2K25 & Satluj Public School | Showcased real-world robotics and IoT applications.
- Career Sprint – Placement Challenge 2K25, CGC Landran | Completed aptitude and coding rounds, improving placement readiness.
- AI Vision Quest – Eminence 2K25, CGC Landran | Participated in AI and emerging tech challenge, enhancing analytical problem-solving.