

# PREETI CHANDA PATRA

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## Education

### Vellore Institute of Technology, Chennai

Sep 2022 – May 2026

B.Tech in Computer Science and Engineering (AI & Robotics)

**Relevant Coursework:** DSA, DBMS, OS, OOPS, Robotics, AI, ML, Software Engineering, Compiler Design

## Technical Skills

**Languages:** C++, Python, SQL, JavaScript, HTML, CSS, Java

**Frameworks & Libraries:** React.js, Next.js, Spring Boot, Flask, TailwindCSS, Bootstrap, TensorFlow (Basics)

**Databases & Cloud:** MySQL, PostgreSQL, MongoDB, Firebase, AWS (EC2, S3), Neon Serverless

**Developer Tools:** Git/GitHub, Docker, Jira, Linux, VS Code, SonarQube, Postman, Figma

**Software Engineering Concepts:** OOP, RESTful API Design, SDLC, Agile, Unit Testing, CI/CD

**Data Analytics & Visualization:** Power BI, Tableau, Excel, Pandas, NumPy, Matplotlib, Jupyter Notebook

## Internship

### Abbott Healthcare Pvt. Ltd.

May 2025 – Jul 2025

*Intern Software Developer*

Mumbai

- Developed reusable React UI components for enterprise-scale web apps, improving code efficiency and maintainability.
- Executed 150+ unit and integration tests, resolving 25+ bugs to boost system stability and user experience.
- Collaborated with QA and backend teams to ensure accessibility and seamless workflow validation across 150+ pages.

### Bellurbis Technologies Pvt. Ltd.

Jul 2025 – Oct 2025

*Data Science Intern*

Gurugram (Remote)

- Performed data preprocessing and feature engineering using Python, Pandas, and Scikit-learn for model training.
- Built and fine-tuned predictive ML models, improving forecasting accuracy and client insights by 25%.
- Created Power BI and Matplotlib dashboards, delivering actionable intelligence that enhanced stakeholder decisions.

## Projects

### AI Video Sort Generator — Next.js, React, TailwindCSS, AI, Clerk, Neon

2024

- Engineered an AI-powered video sorting platform that classifies 200+ videos, reducing manual effort by 65%.
- Integrated Clerk authentication and Neon serverless PostgreSQL backend, supporting 10k+ metadata queries.
- Optimized front-end rendering using React and TailwindCSS, improving user experience scores by 40%.

### End-to-End Data Analytics Project — Banking Domain

2024

- Developed a data analytics pipeline processing 100k+ records using MySQL and Power BI for trend and fraud detection.
- Performed cleaning, transformation, and visualization to derive insights that improved reporting accuracy by 30%.
- Designed interactive dashboards tracking 8+ KPIs such as loan-to-deposit ratio, churn rate, and customer segmentation.

### Smart Safety Helmet & Automated Test Tube Holder

2023

- Built an IoT-enabled safety system with Arduino, MQ-2, MPU6050, and IR sensors, improving lab safety by 50%.
- Integrated real-time gas, motion, and impact detection modules with automated emergency alerts under 2 seconds.
- Prototyped a low-cost solution with 95% accuracy in environmental hazard detection for lab and industrial use.

## Certifications

- Deloitte Australia Virtual Internship Program – Data Analysis & Cyber Security (Oct 2025)
- Oracle Certified Foundation Associate (Jul 2024)
- Cisco Networking Academy: Networking Basics (Apr 2024)
- Spoken Tutorial - IIT Bombay: C, C++, Python (Apr 2023)

## Positions of Responsibility

### Outreach Lead, CloudOps Technical Club

Aug 2023 – Jul 2025

*Vellore Institute of Technology, Chennai*

- Led outreach initiatives for a technical club, engaging with industry partners to secure sponsorships and collaborations.
- Organized and executed large-scale hackathons, ensuring smooth event flow from promotion to prize distribution.
- Built long-term partnerships with tech companies, enhancing club visibility and increasing sponsorship value.