

# ABHYUDAYA

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## EDUCATION

### PW Institute of Innovation

Bengaluru, Karnataka

*Certification in Computer Science & Artificial Intelligence*

*Oct 2023 – Oct 2027*

- Relevant Coursework: **Data Structures and Algorithms**, **Web Development**, Operating Systems, Computer Networks, Machine Learning, Deep Learning

### Indian Institute of Technology Guwahati

Guwahati, Assam

*B.Sc. in Data Science & Artificial Intelligence*

*Oct 2023 – Oct 2027*

- Relevant Coursework: **Data Structures**, Database Management Systems, Linear Algebra, Optimization, Statistics, Java Programming, AI Basics

## WORK EXPERIENCE

### Coding Club Member

Jan 2025 – Present

*PW IOI*

- Managed development and deployment of three open-source projects; organized biweekly coding contests.
- Improved participants' problem-solving skills, achieving a 20% faster average submission speed.

### Sports Club President

Dec 2024 – Present

*PW IOI*

- Led PW IOI football and chess teams to multiple top-3 finishes at the Karnataka Youth Sports Festival (KYSE).

## TECHNICAL SKILLS

- Languages & Core Concepts:** Python, Core Java, C/C++, JavaScript, **Data Structures & Algorithms**, OOP
- Full-Stack Development:** React, Express.js, **MERN Stack**, MongoDB, PostgreSQL, Supabase, Tailwind CSS, Vite
- AI/LLM Engineering:** **Agentic AI**, **RAG**, **LLMs** (GPT, Gemini, BERT), LangChain, LangGraph, Ollama, Pydantic, n8n
- DevOps & Tools:** Git, GitHub, Docker, Postman, Vercel/Netlify, **System Design Basics**

## ACHIEVEMENTS

- Secured **3rd place in Vishwas Divas Ideathon (PW IOI)** for pitching an AI assistant project.
- Ranked among **Top 8 teams in PW IOI 24-hour Hackathon** for building a B2C handicrafts platform.

## PROJECTS

### ProductivityQuest: Gamified Full-Stack Learning Platform

*Full-Stack / AI-Readiness*

- Designed a **full-stack productivity platform** integrating task management, note-taking (Tiptap editor), and **RPG gamification** (XP, leaderboards).
- Built using **React (TypeScript)**, Vite, Tailwind, and Supabase (PostgreSQL + Auth).
- Implemented a **GitHub-style activity heatmap**, Pomodoro timer, and analytics dashboard.

### Scalable Database Backup & Restore Utility (CLI)

*Backend / Distributed Systems*

- Developed a **CLI utility** supporting full, incremental, and differential backups for **MySQL**, **PostgreSQL**, **MongoDB**.
- Integrated **compression**, **logging**, **error handling**, and secure storage with AWS S3, GCS, and Azure.
- Optimized for **large-scale databases** with selective restore options.

### Full-Stack Agentic AI Platform

*AI/LLM Engineering*

- Built an AI chat app using **ChatGPT API**, **BERT**, and **DeepSeek R1**.
- Implemented RAG pipelines (LangChain/Graph), agent-based workflows, and Docker-based LLM deployments.
- Used **MERN stack** + Hugging Face models for scalable AI integration.

### 3D Animated Website

*Frontend Development*

- Developed a dynamic **3D animated website** using JavaScript and Canvas API with smooth scrolling effects.