

# Sagar Dubey

Python Developer | Backend Developer

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## Education

**PES College of Engineering**

*B.Tech in Computer Science Engineering*

**Aug 2022 – July 2026**

*CGPA: 7.45*

## Experience

**Management Sub-Coordinator – FORCES Club**

**Sep 2023 – Mar 2025**

*Chhatrapati Sambhajnagar, India*

- Co-led a team of 6 to organize Codefest 2K24, resulting in a 30% increase in participation compared to the previous year.
- Directed the end-to-end logistics and planning of a 50-person technical event, achieving 85%+ positive feedback from attendees.
- Maintained communication with 10+ stakeholders, vendors, and volunteers to ensure seamless execution.

## Projects

**Flask-Based Chatbot – Byte Buddy [GitHub]**

**May 2024**

*Python, Flask, SQLite, JavaScript, NLP*

- Engineered a chatbot capable of real-time learning and response generation using NLP and difflib-based logic.
- Implemented secure login authentication and session-based personalization across user accounts.
- Stored 1000+ chat interactions in SQLite for future learning and analysis.
- Built a responsive frontend with a ChatGPT-style interface and typing animation.
- Integrated chat filtering by date and session using JSON and Flask-Session.

**Flask URL Shortener [GitHub]**

**Aug 2024**

*Python, Flask, JavaScript, JSON*

- Developed a web-based URL shortener that generated 250+ shortened links with session tracking.
- Enabled file upload with auto-generated short URLs and download links.
- Implemented custom error handling and RESTful API endpoints for developer access.

**Text-to-Speech Chrome Extension [Research Paper]**

**Mar 2025**

*JavaScript, HTML, CSS, Web Speech API*

- Built a Chrome extension converting webpage text to speech for enhanced accessibility.
- Enabled hover-to-play functionality with customizable pitch, speed, and voice options.
- Targeted support for users with visual impairments; tested on multiple browser versions.
- *Source code currently under copyright review.*

## Technical Skills

**Languages:** Python, C, C++, Java, JavaScript, Data Structures

**Frameworks:** Flask, Bootstrap

**Databases:** MySQL, SQLite

**Tools:** Git, GitHub, VS Code, PyCharm, Postman

**Concepts:** REST APIs, Model Deployment, Web Security, Session Management, CRUD

## Certifications & Workshops

- Programming Proficiency: Solved over 200 problems across C, C++, Java, and Python.
- AI/ML for Geodata Analysis – IIRS/ISRO (Nov 2024, Reg ID: 20241442529751).
- Forest Carbon & Water Cycle Monitoring – IIRS/ISRO (Dec 2024, Reg ID: 20241402454508).
- Remote Sensing, GIS & GNSS – IIRS/ISRO (Dec 2024, Reg ID: 20241462529840).
- GitHub Foundations – Mastered collaboration, project boards, and repo security (Apr 2025, Expires: Apr 2028).
- Certificate in Programming (C, C++, Java, Python) – Disha Computer Institute (Nov 2023).

## Research & Publications

- **”Text-to-Speech Chrome Extension”** – International Journal of Science & Engineering Development Research, Vol. 10, Issue 8, August 2025. DOI: IJRTI2508054