



Sachin Zade

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EDUCATION

- **National Institute of Technology, Raipur** 2022–2026
B.Tech in Biotechnology CPI: 7.35 (Till 6th Sem, 2025)
- **Jawahar Navodaya Vidyalaya, Gondia** 2020
Class XII, CBSE Percentage: 88.6%

TECHNICAL SKILLS

- Programming Languages:** C++, Python, JavaScript, Shell
- Web Development:** Node.js, Express.js, React.js, HTML, CSS, Vercel, Render
- Databases:** MySQL, PostgreSQL, MongoDB
- Version Control:** Git, GitHub
- Tools & Frameworks:** Bash, Vim, Linux, REST APIs, Chrome Extension APIs, Mongoose
- Operating Systems:** Windows, Linux (Ubuntu)

PROJECTS

- **Tinylink – GitHub Link** 2025
A simple and scalable URL shortener built with Node.js.
◦ Developed RESTful APIs using **Node.js** and **Express.js** for generating short and custom URLs.
◦ Integrated **MongoDB (Mongoose)** for database management and deployed the app on **Vercel**.
◦ Implemented validation, error handling, and analytics to enhance user reliability.
- **GitTree – GitHub Link** 2024
A web tool to visualize and export the structure of any public GitHub repository.
◦ Fetched and parsed data using the **GitHub REST API** to dynamically render interactive repository trees.
◦ Built Markdown export and copy-to-clipboard functionality for seamless developer usage.
- **ZGPT – GitHub Link** 2025
A lightweight command-line AI assistant powered by the Google Gemini API.
◦ Published as a Python package installable via **pip** ('pip install zgpt') for quick CLI usage.
◦ Implemented API-based natural language responses using the **Google Gemini API**.
◦ Enabled seamless command-line prompts such as "zgpt what is the distance between moon and earth".

EXPERIENCE

- **Pandit Ravishankar Shukla University (PRSU)** June 2025 – August 2025
Research Internship – Bioinformatics & Data Automation Raipur
◦ Developed Python-based automation scripts to streamline bioinformatics workflows and data preprocessing.
◦ Applied **Pandas**, **NumPy**, and **Matplotlib** for biological data cleaning and visualization.
◦ Built a prototype tool that reduced manual analysis time by nearly 40%.
◦ Collaborated with research teams to integrate data automation into ongoing research pipelines.
- **Water Treatment Plant** June 2024 – July 2024
Summer Internship Bhatagaon, Raipur
◦ Automated daily data collection using Python scripts and improved reporting efficiency by 30%.
◦ Created dashboards and analyzed performance metrics using Excel and Python-based visualization.
◦ Learned fundamentals of process automation, real-time monitoring, and data analytics.

POSITIONS OF RESPONSIBILITY

- **Vice President** Biotechnology Students Association (BITSA) – NIT Raipur May 2024 – Present
- **Head Coordinator** Shaurya Sports Committee, NIT Raipur 2024 – Present

ACHIEVEMENTS

- **Rajya Puraskar Award** The Bharat Scouts & Guides Aug 2017
- **Vice Captain** Jawahar Navodaya Vidyalaya, Gondia 2020

INTERESTS / HOBBIES

Tinkering with Android custom ROMs | Tech Podcasts | Competitive Coding | Badminton | Cricket