

# Ritik Tiwari

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## Education

### VIT Bhopal University

B.Tech. in Computer Science — CGPA: 8.92/10

• Relevant Coursework: Data Structures and Algorithms, DBMS, Cloud Computing, Web Development, Operating System

### Brightway Public School

12<sup>th</sup> Standard — Percentage: 75.16%

### Brightway Public School

10<sup>th</sup> Standard — Percentage: 76.6%

Bhopal, Madhya Pradesh

Oct 2022 – Present

Amethi, Uttar Pradesh

Jun 2020 – Jul 2021

Amethi, Uttar Pradesh

Apr 2018 – May 2019

## Technical Skills

- **Programming Languages:** C++, Python, JavaScript
- **Libraries & Tools:** NumPy, Pandas, Scikit-learn, Git, Linux, Flask, TensorFlow, OpenCV
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Node.js, Express.js
- **Development Practices:** Object-Oriented Programming, Data Structures and Algorithms, DBMS, OS
- **Databases:** MySQL, MongoDB

## Projects

### TuneTrail

Mar 2025 – Mar 2025

MERN Stack Development

HTML, CSS, JavaScript, React.js, Node.js, MongoDB, Express.js

- Built a full-stack music player application using MERN technologies with user authentication and music streaming capabilities.
- Implemented responsive user interface for mobile and desktop devices.

### Resume Builder Web Application

Jun 2024 – Jul 2024

Full Stack Development

HTML, CSS, JavaScript, Node.js, Express.js

- Created a web application for resume creation with PDF generation functionality.
- Engineered backend services using Node.js and Express.js for data handling and PDF rendering.

### Brain Tumor Detection System (Group Project)

Aug 2023 – Sep 2023

Flask Web Application Development

Python, Flask

- Designed Flask web application for medical image analysis with team of 5 members.
- Enabled MRI scan upload for tumor detection through web interface achieving 95% accuracy.

## Activities and Achievements

### ZS Campus Beats Finalist

Apr 2024

Hackathon Organized by ZS Associates

- Secured All India Rank 12 and 1st position in college in national-level hackathon.

### Runner-Up, CodeX Hackathon

Feb 2024

Hackathon Organized by Cisco Community, VIT Bhopal

- Earned runner-up position in CodeX Hackathon, competing against 50+ teams.

### Competitive Programming and DSA

Feb 2023 – Present

Coding Platforms

- Solved 400+ Data Structures and Algorithms problems on LeetCode, Codeforces, and GeeksforGeeks.
- Attained ratings: LeetCode 1434, Codeforces 786, GeeksforGeeks 1473.

### Summer-of-Open-Source-ML-Projects Contributor

Aug 2024

Open Source Development

- Contributed to machine learning project organized by Google Development Club VIT Bhopal with 20+ contributors.

### PR & Outreach Co-Lead

Jan 2024 – Present

Open Source Club, VIT Bhopal

- Coordinated 2+ technical workshops and promoted open-source culture within the community.
- Managed community engagement for tech events, attracting 1000+ participants.

## Certifications

### • Full Stack Developer MERN - SMARTBRIDGE

Learned MongoDB, Express.js, React, and Node.js to build complete web applications with database integration and user interfaces.

### • Postman API Fundamentals Student Expert Certificate - Postman

Certified in API testing and development using Postman, covering API design and automated testing.

### • Cloud Computing - NPTEL

Gained knowledge in cloud computing paradigms (IaaS, PaaS, SaaS), virtualization, and cloud security.