# Ritik Tiwari

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## Education

**VIT Bhopal University** — Bhopal, Madhya Pradesh
B.Tech. in Computer Science — CGPA: 8.88/10 — Oct 2022 – Present
- Relevant Coursework: Data Structures and Algorithms, DBMS, Cloud Computing, Web Development, Operating System

**Brightway Public School** — Amethi, Uttar Pradesh
$12^{th}$ Standard — Percentage: 75.16% — Jun 2020 – Jul 2021

**Brightway Public School** — Amethi, Uttar Pradesh
$10^{th}$ Standard — Percentage: 76.6% — 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

- **The Bits and Bytes of Computer Networking** - Google (Coursera)
Completed training in networking concepts, including TCP/IP, routing, and network services.

- **Postman API Fundamentals Student Expert Certificate** - IBM (Coursera)
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.